

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 922-36N1BS			
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES			
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES			
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515			
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com			
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-22650			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')			
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>			

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1088 FSL 2379 FWL	SESW	36	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	1253 FSL 2140 FWL	SESW	36	9.0 S	22.0 E	S
At Total Depth	1253 FSL 2140 FWL	SESW	36	9.0 S	22.0 E	S

21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1253		23. NUMBER OF ACRES IN DRILLING UNIT 640	
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 131		26. PROPOSED DEPTH MD: 8678 TVD: 8659	
27. ELEVATION - GROUND LEVEL 4995		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496	

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2240	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 8678	11.6	I-80 LT&C	12.5	Premium Lite High Strength	280	3.38	11.0
							50/50 Poz	1170	1.31	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Gina Becker	TITLE Regulatory Analyst II	PHONE 720 929-6086
SIGNATURE	DATE 05/14/2011	EMAIL gina.becker@anadarko.com
API NUMBER ASSIGNED 43047515970000		
APPROVAL Permit Manager		

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 922-36N1BS**

Surface:	1088 FSL / 2379 FWL	SESW
BHL:	1253 FSL / 2140 FWL	SESW

Section 36 T9S R22E

Unitah County, Utah
Mineral Lease: ML-22650

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1147	
Birds Nest	1419	Water
Mahogany	1791	Water
Wasatch	4222	Gas
Mesaverde	6402	Gas
MVU2	7436	Gas
MVL1	8009	Gas
TVD	8659	
TD	8678	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 8659' TVD, approximately equals
 5,715 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,625 psi (bottom hole pressure
 minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
 (0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

*Please refer to the attached Drilling Program.
 Onshore Order #2 – Air Drilling Variance*

*Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements
 associated with air drilling outlined in Onshore Order 2*

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated
 with air drilling.*

*This Standard Operating Practices addendum provides supporting information as to why KMG current
 air drilling practices for constructing the surface casing hole should be granted a variance to Onshore
 Order 2 air drilling requirements.*

*The reader should note that the air rig is used only to construct a stable surface casing hole through a
 historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to
 drill and construct the majority of the wellbore.*

*More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing
 hole in approximately 675 wells without incident of blow out or loss of life.*

Background

*In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the
 surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling
 operation does not drill through productive or over pressured formations in KMG field, but does
 penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome
 the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole
 for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the
 Bird's Nest.*

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

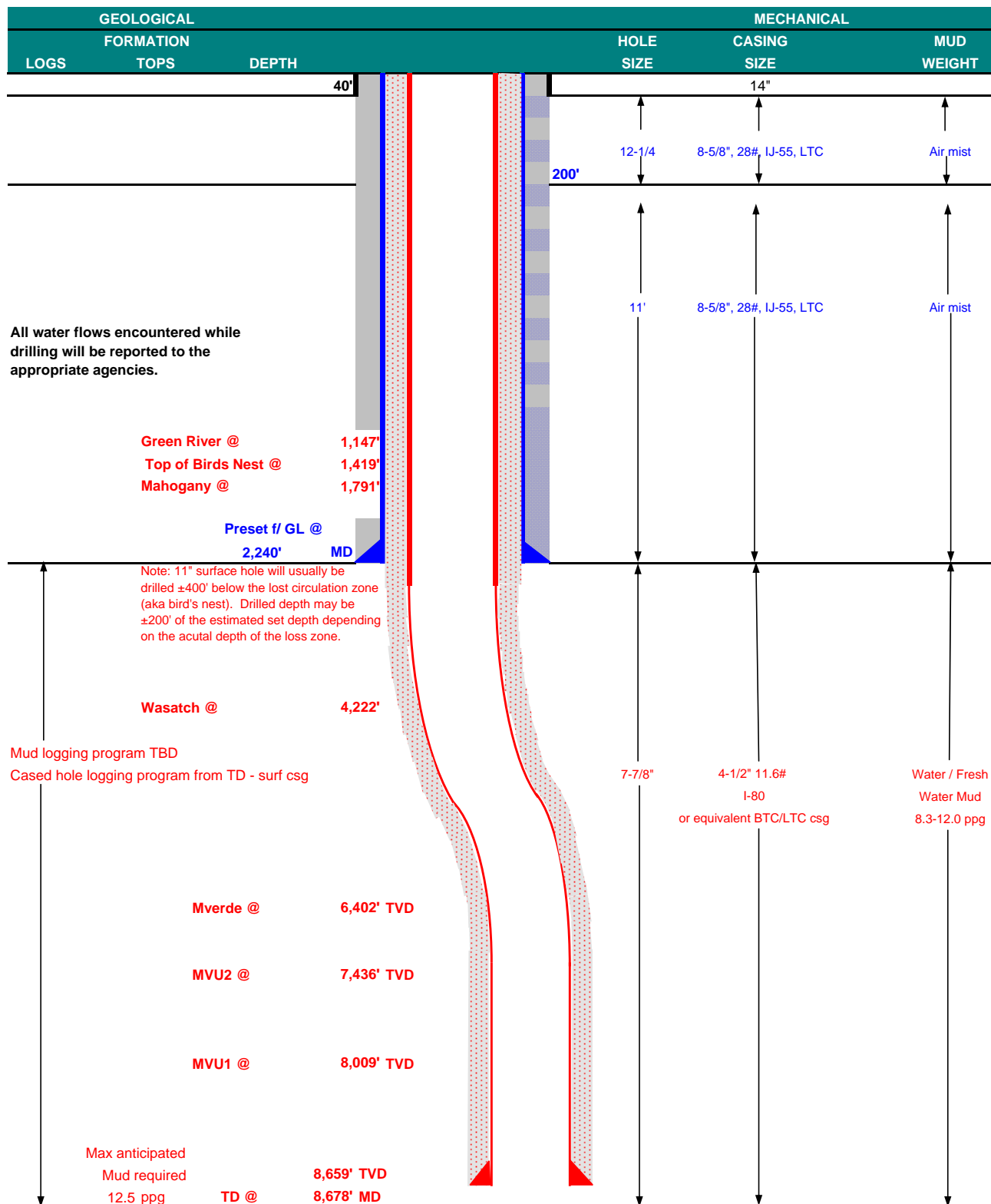
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	May 13, 2011		
WELL NAME	NBU 922-36N1BS					TD	8,659'	TVD	8,678' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		4994.9
SURFACE LOCATION	SESW	1088 FSL	2379 FWL	Sec 36	T 9S	R 22E			
	Latitude: 39.988261		Longitude: -109.388549		NAD 27				
BTM HOLE LOCATION	SESW	1253 FSL	2140 FWL	Sec 36	T 9S	R 22E			
	Latitude: 39.988714		Longitude: -109.389404		NAD 27				
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.								





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	LTC	BTC
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,240	28.00	IJ-55	LTC	2.41	1.79	6.34
						7,780	6,350	279,000
PRODUCTION	4-1/2"	0 to 8,678	11.60	I-80	LTC/BTC	1.11	1.13	3.43

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi)

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1,740'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	160	35%	11.00	3.82
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,718'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	280	20%	11.00	3.38
	TAIL	4,960'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,170	35%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

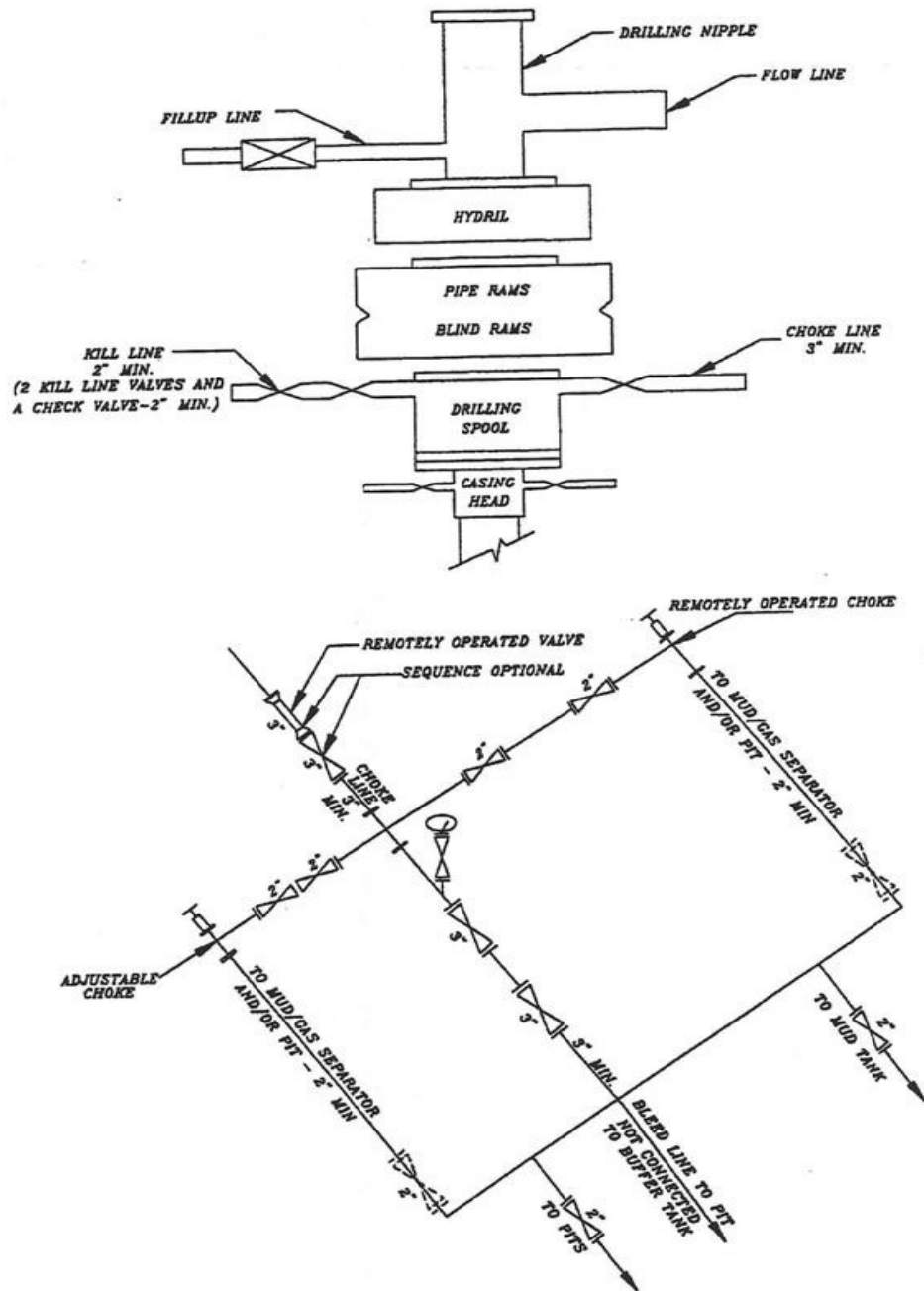
BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

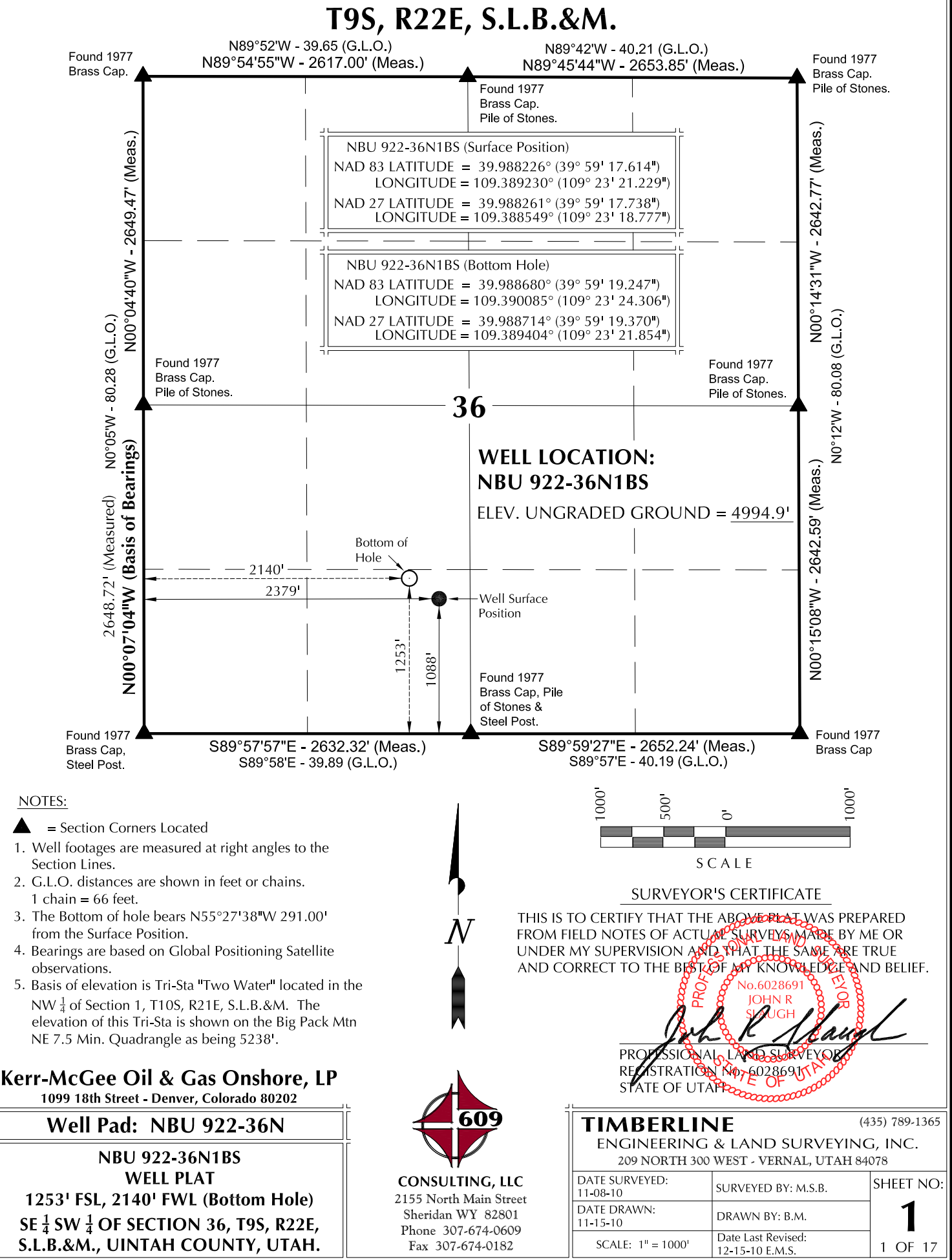
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:_____
Nick Spence / Emile Goodwin**DATE:** _____**DRILLING SUPERINTENDENT:**_____
Kenny Gathings / Lovel Young**DATE:** _____

EXHIBIT A
NBU 922-36N1BS



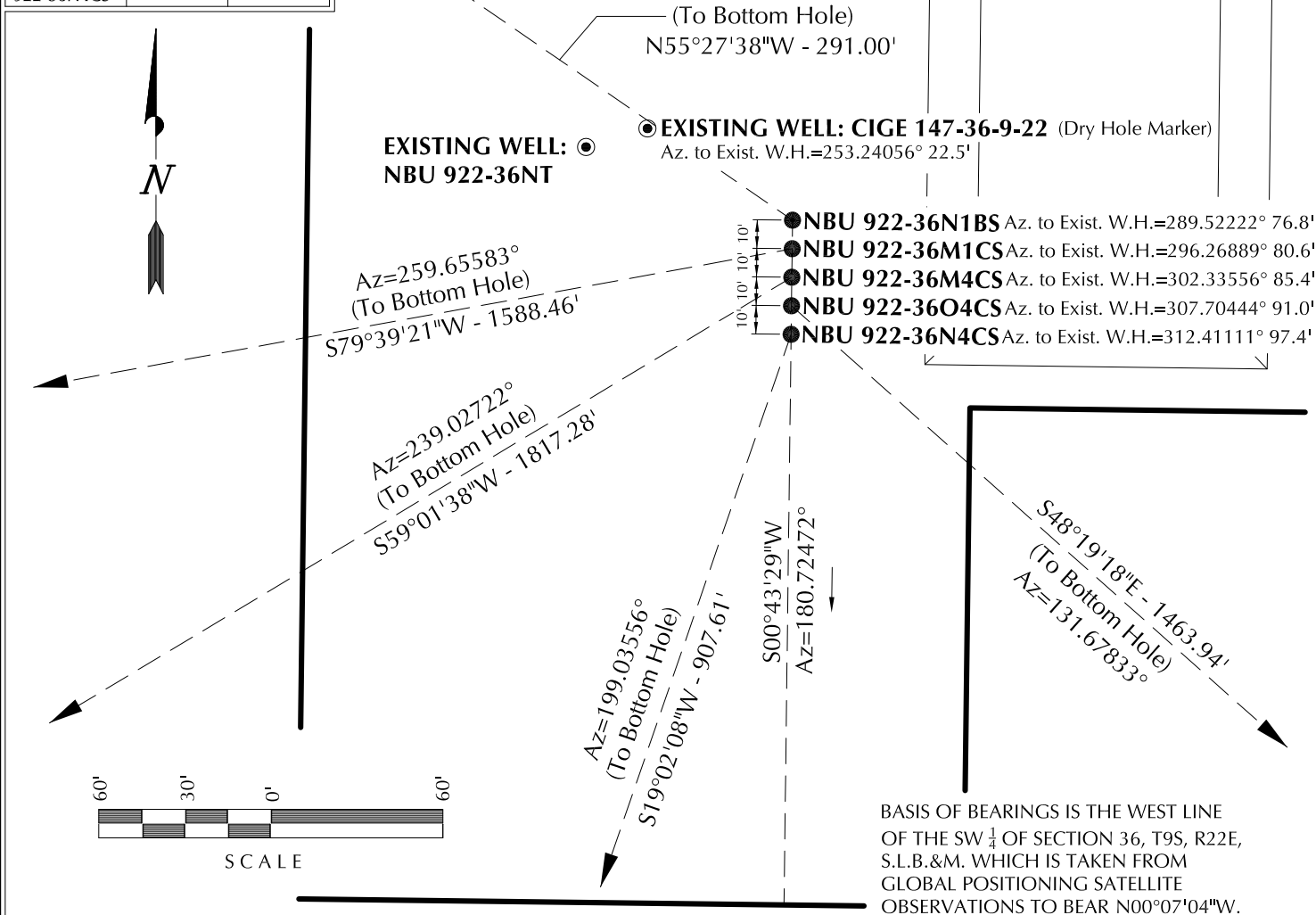
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 922-36N1BS	39°59'17.614"	109°23'21.229"	39°59'17.738"	109°23'18.777"	1088' FSL	39°59'19.247"	109°23'24.306"	39°59'19.370"	109°23'21.854"	1253' FSL
NBU 922-36M1CS	39°59'17.516"	109°23'21.230"	39°59'17.640"	109°23'18.779"	2379' FWL	39°59'14.710"	109°23'41.304"	39°59'14.834"	109°23'38.852"	2140' FWL
NBU 922-36M4CS	39°59'17.417"	109°23'21.232"	39°59'17.541"	109°23'18.781"	1068' FSL	39°59'08.189"	109°23'41.255"	39°59'08.313"	109°23'38.803"	816' FSL
NBU 922-36O4CS	39°59'17.318"	109°23'21.234"	39°59'17.442"	109°23'18.783"	2379' FWL	39°59'07.691"	109°23'07.201"	39°59'07.815"	109°23'04.751"	819' FSL
NBU 922-36N4CS	39°59'17.219"	109°23'21.236"	39°59'17.343"	109°23'18.784"	1048' FSL	39°59'08.745"	109°23'25.047"	39°59'08.869"	109°23'22.596"	85' FSL
NBU 922-36NT	39°59'17.869"	109°23'22.158"	39°59'17.992"	109°23'19.707"	2307' FWL	39°59'07.691"	109°23'07.201"	39°59'07.815"	109°23'04.751"	1814' FEL
CIGE 147-36-9-22	39°59'17.933"	109°23'21.882"	39°59'18.056"	109°23'19.430"	1120' FSL	39°59'08.745"	109°23'25.047"	39°59'08.869"	109°23'22.596"	190' FSL
	39°59'17.933"	109°23'21.882"	39°59'18.056"	109°23'19.430"	2329' FWL	39°59'07.691"	109°23'07.201"	39°59'07.815"	109°23'04.751"	2081' FWL

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 922-36N1BS	165.0'	-239.7'	NBU 922-36M1CS	-285.2'	-1,562.6'	NBU 922-36M4CS	-935.2'	-1,558.2'	NBU 922-36O4CS	-973.4'	1,093.4'
NBU 922-36N4CS	-858.0'	-296.0'									



BASIS OF BEARINGS IS THE WEST LINE OF THE SW $\frac{1}{4}$ OF SECTION 36, T9S, R22E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°07'04\"W.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-36N

WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.



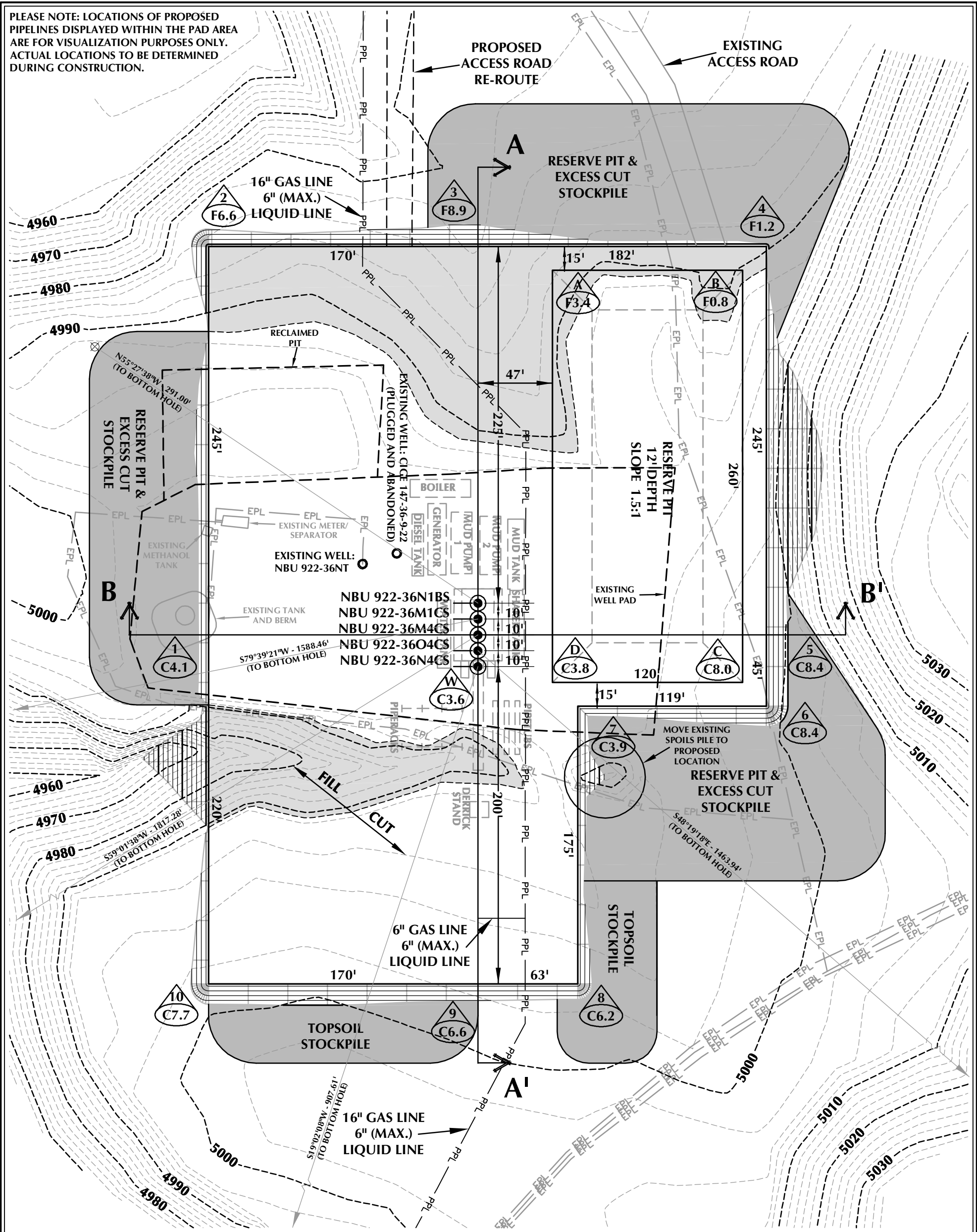
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 11-08-10	SURVEYED BY: M.S.B.	SHEET NO: 6 6 OF 17
DATE DRAWN: 11-15-10	DRAWN BY: B.M.	
SCALE: 1" = 60'	Date Last Revised: 12-15-10 E.M.S.	



WELL PAD - NBU 922-36N DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4994.6'
FINISHED GRADE ELEVATION = 4991.0'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.68 ACRES
TOTAL DAMAGE AREA = 6.38 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-36N

WELL PAD - LOCATION LAYOUT
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 15,847 C.Y.
TOTAL FILL FOR WELL PAD = 6,008 C.Y.
TOPSOIL @ 6" DEPTH = 2,141 C.Y.
EXCESS MATERIAL = 9,839 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 11,020 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 42,290 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



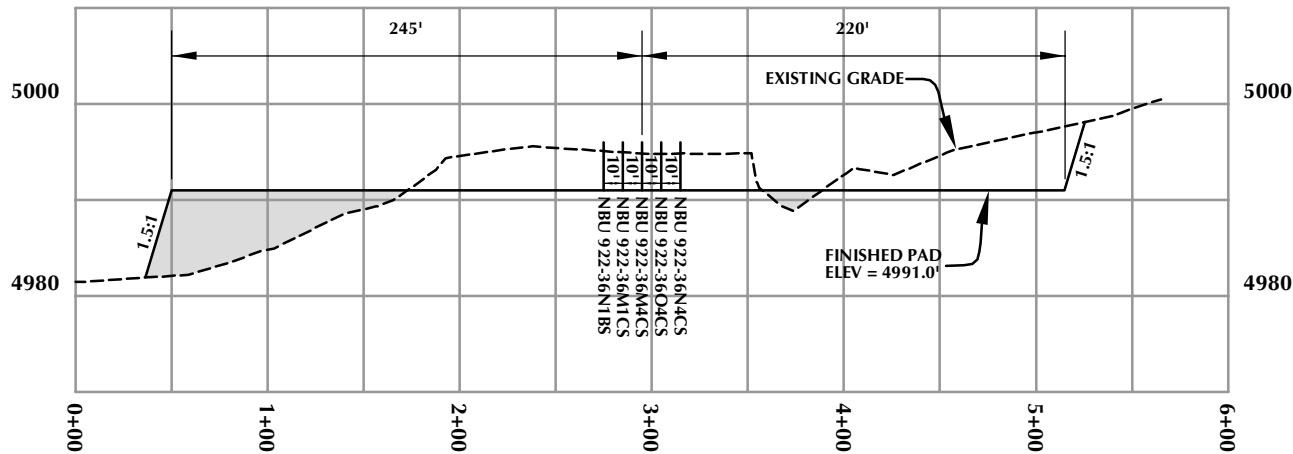
HORIZONTAL 0 30' 60' 1" = 60'

2' CONTOURS

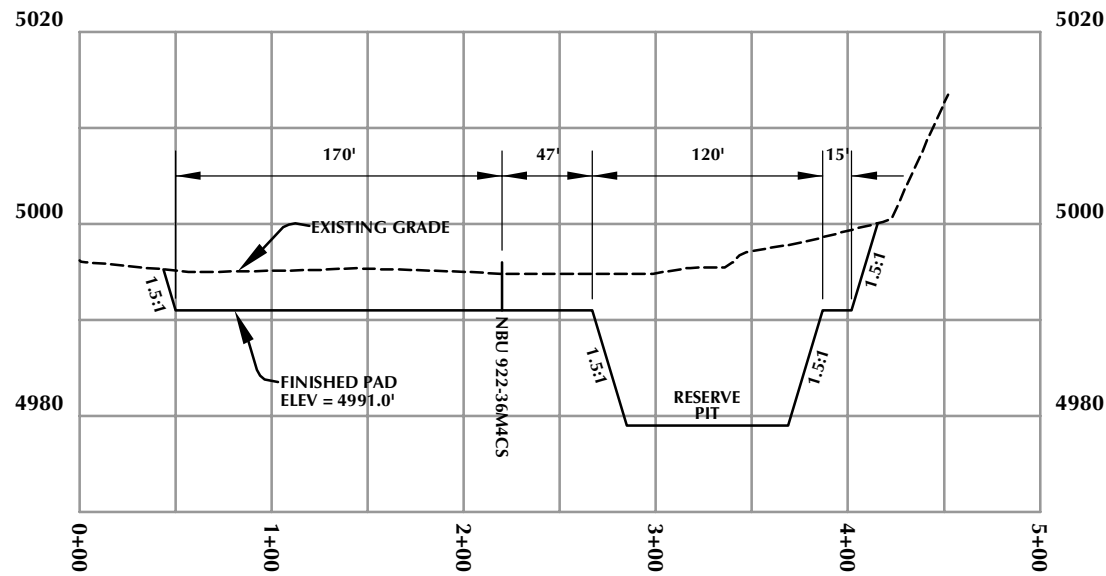
SCALE: 1"=60' DATE: 12/3/10 SHEET NO:

REVISED: JFE 1/24/11 7 7 OF 17

TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-36N

WELL PAD - CROSS SECTIONS

NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

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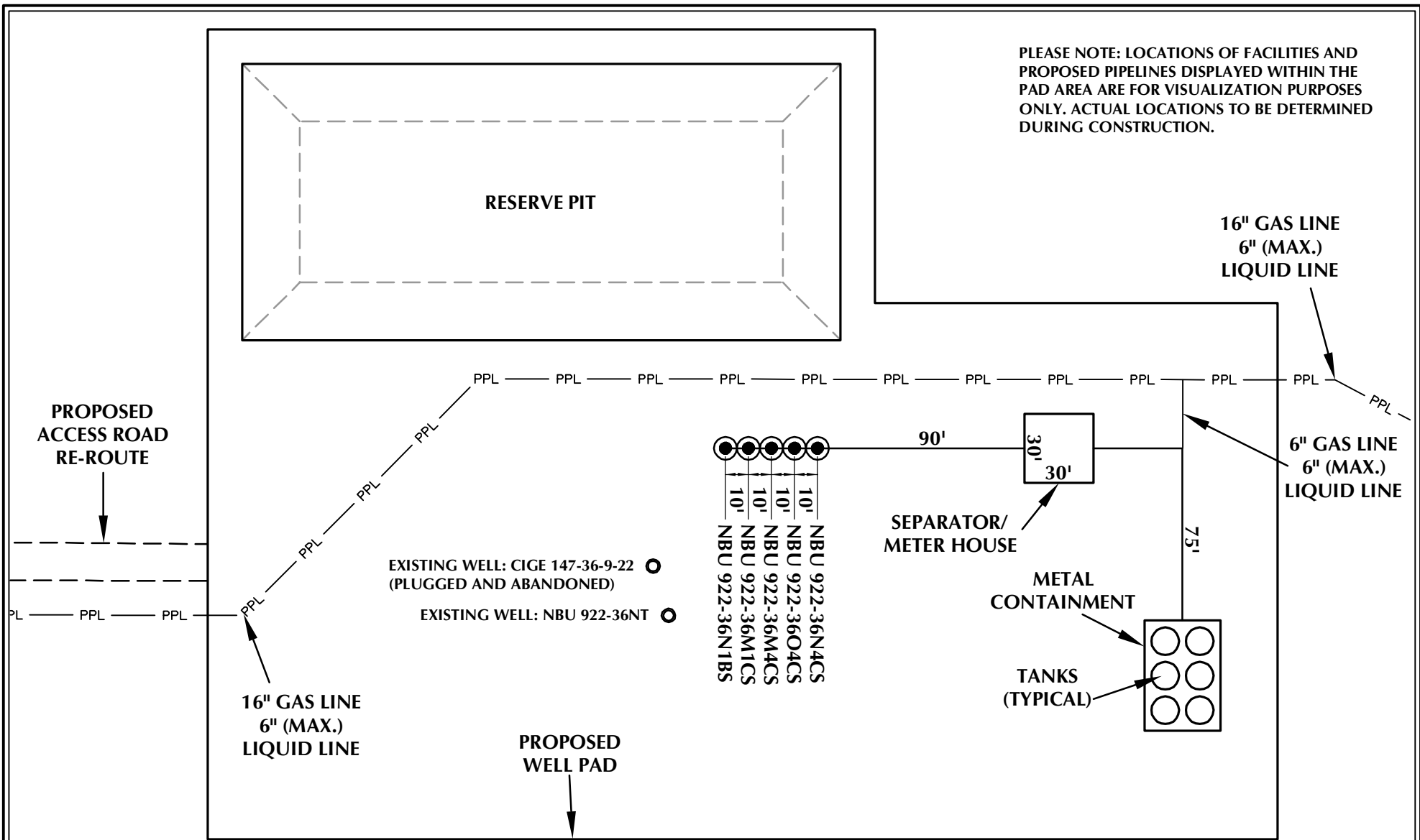
HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

Scale: 1"=100' Date: 12/3/10
REVISED:

SHEET NO:

8 8 OF 17

RECEIVED: Jul. 26, 2011



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-36N

WELL PAD - FACILITIES DIAGRAM

NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST • VERNAL, UTAH 84078

(435) 789-1365

Scale: 1"=60'

Date: 12/3/10

SHEET NO:

REVISED:

JFE
1/24/11

9

9 OF 17

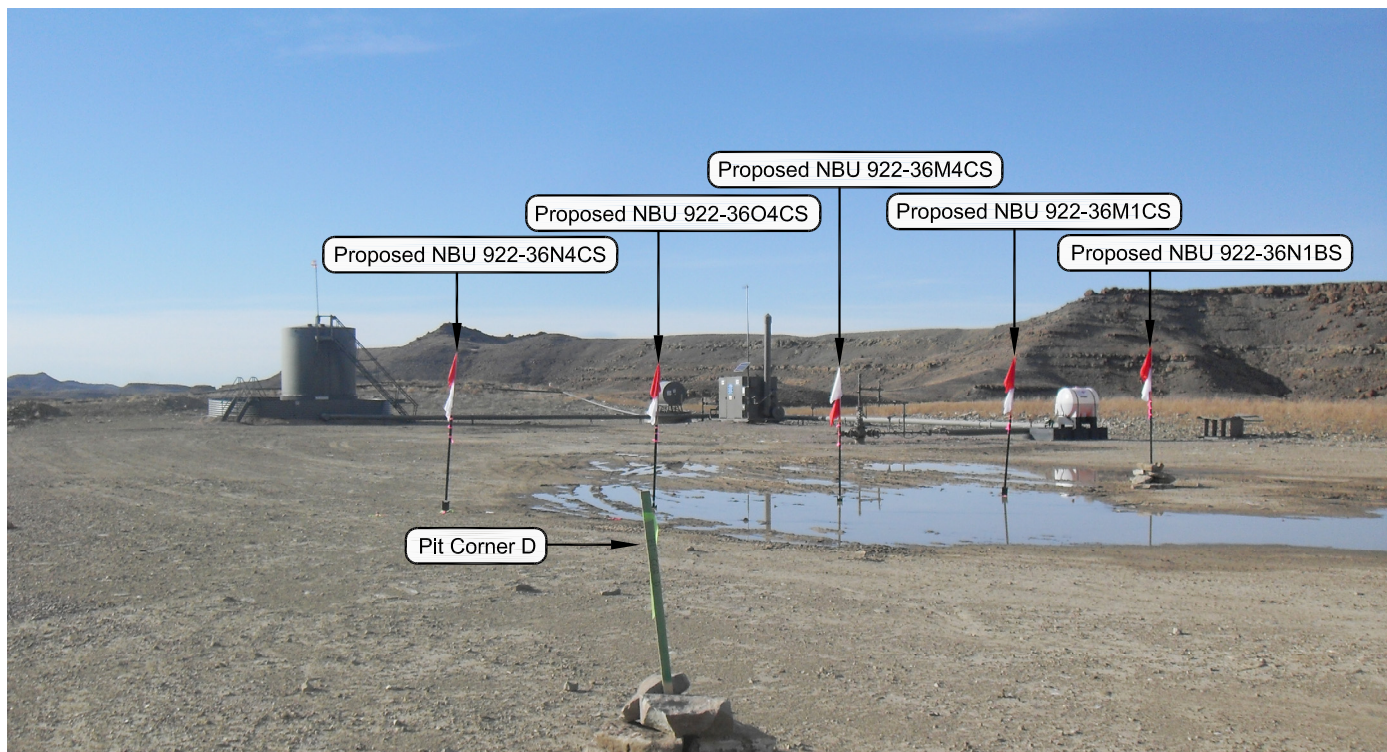


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

Well Pad - NBU 922-36N

LOCATION PHOTOS
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., Uintah County, Utah.



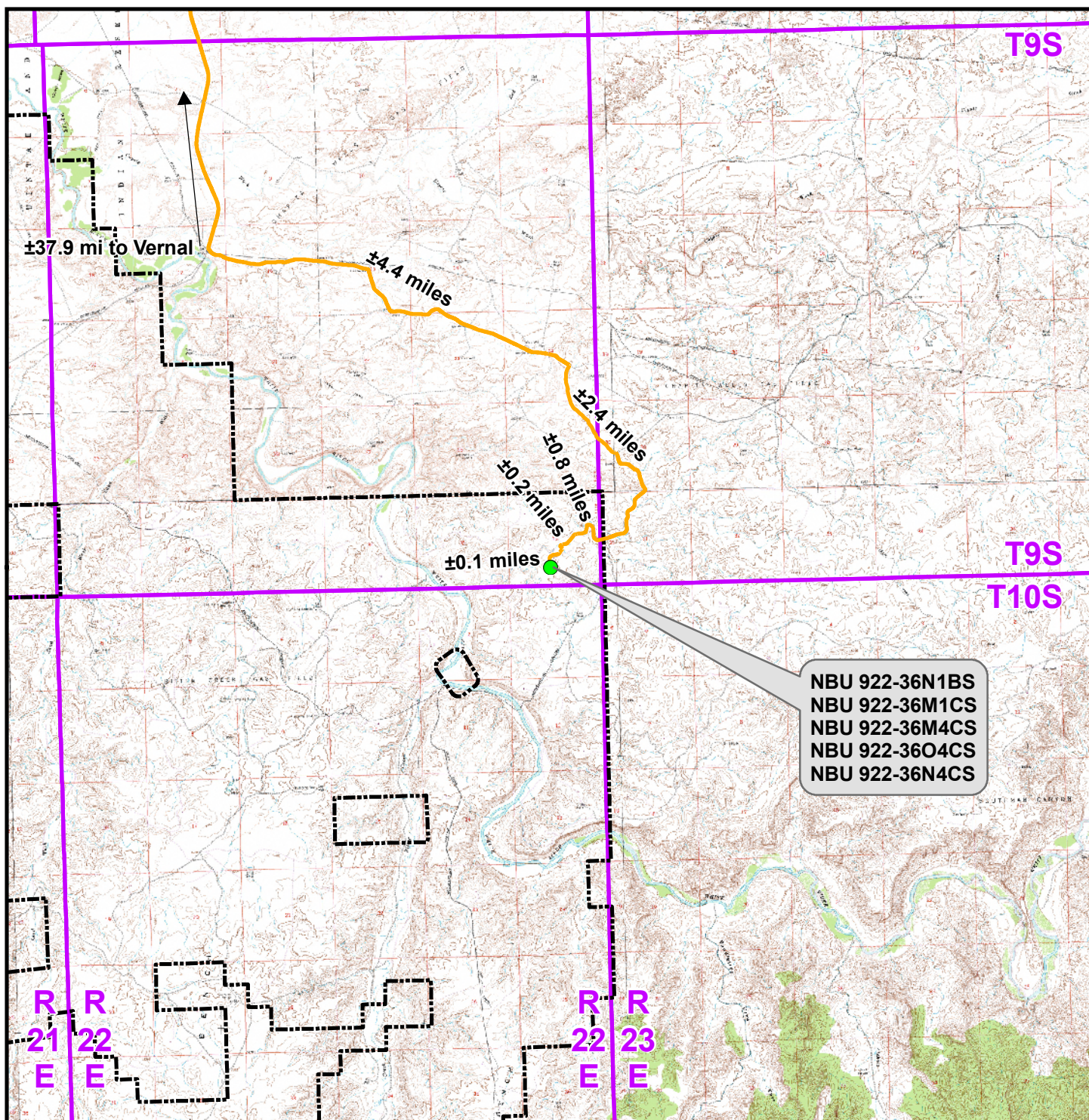
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 11-17-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 10 10 OF 17
DATE DRAWN: 11-18-10	DRAWN BY: B.M.	
Date Last Revised:		



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 922-36N To Unit Boundary: ±2,903ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36N

TOPO A
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



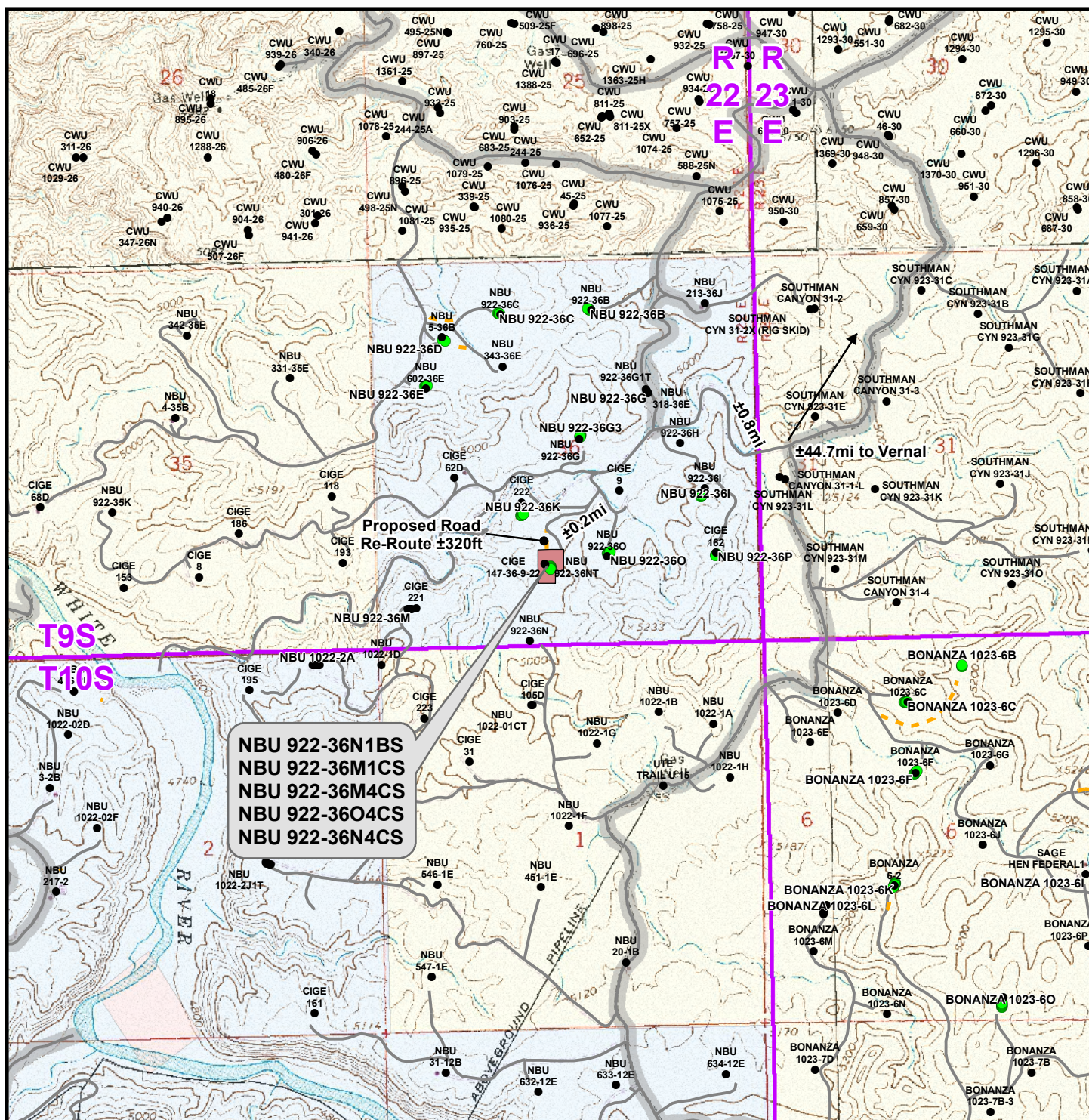
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central
Drawn: TL	Date: 3 Dec 2010
Revised:	Date:

Sheet No:

11 11 of 17



Legend

- | | | | | | |
|-------------------|-------------------|----------------------|---------------|-----------------------------|---------|
| ● Well - Proposed | ■ Well Pad | --- Road - Proposed | — County Road | ■ Bureau of Land Management | ■ State |
| ● Well - Existing | — Road - Existing | ■ Indian Reservation | ■ Private | | |

Total Proposed Road Re-Route Length: ±320ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36N

TOPO B

**NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH**



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

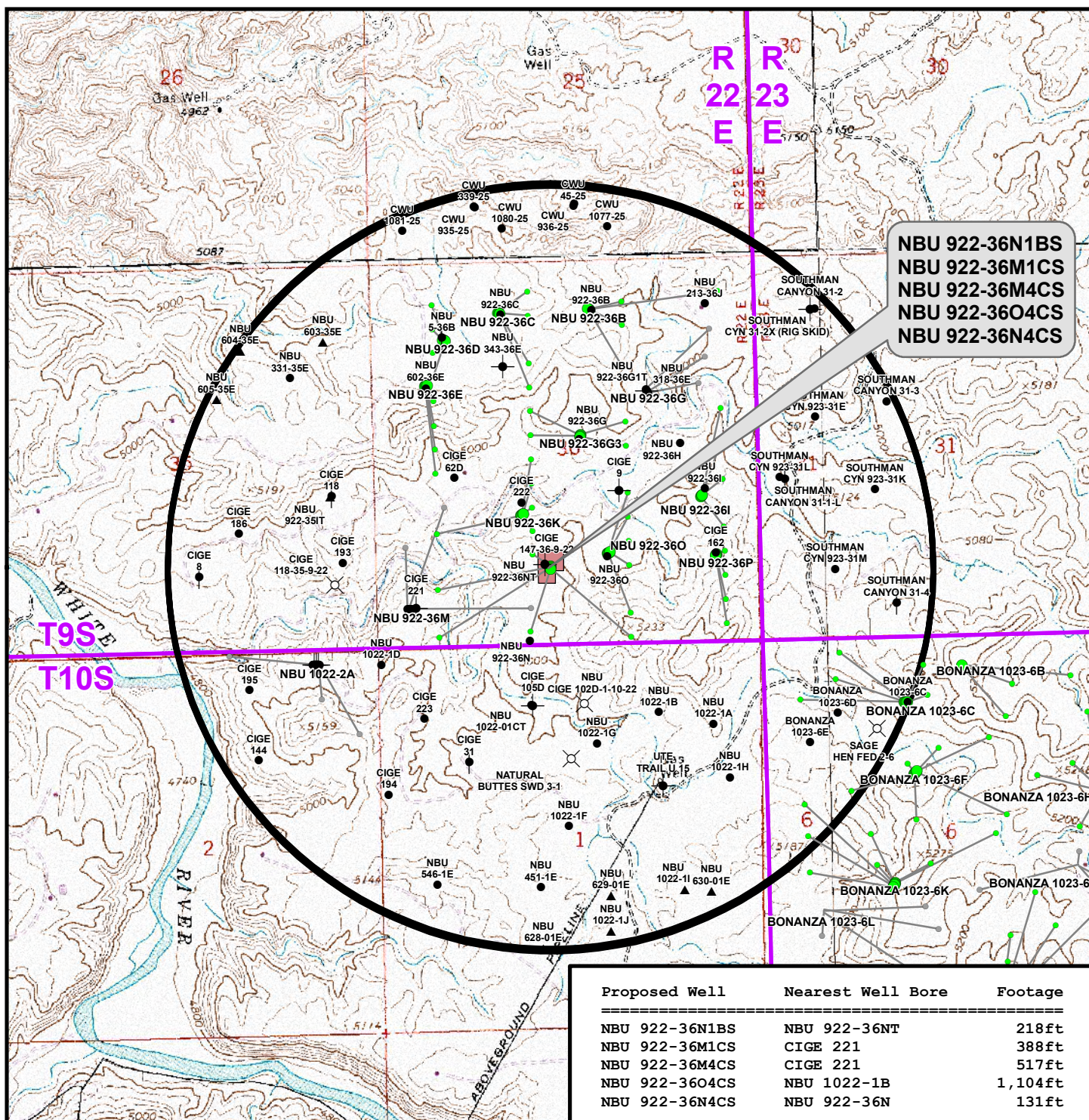


Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: TL	Date: 3 Dec 2010
Revised:	Date:

Sheet No:

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Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Pad
- Well Path
- Bottom Hole - Existing
- Well - 1 Mile Radius

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36N

TOPO C
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

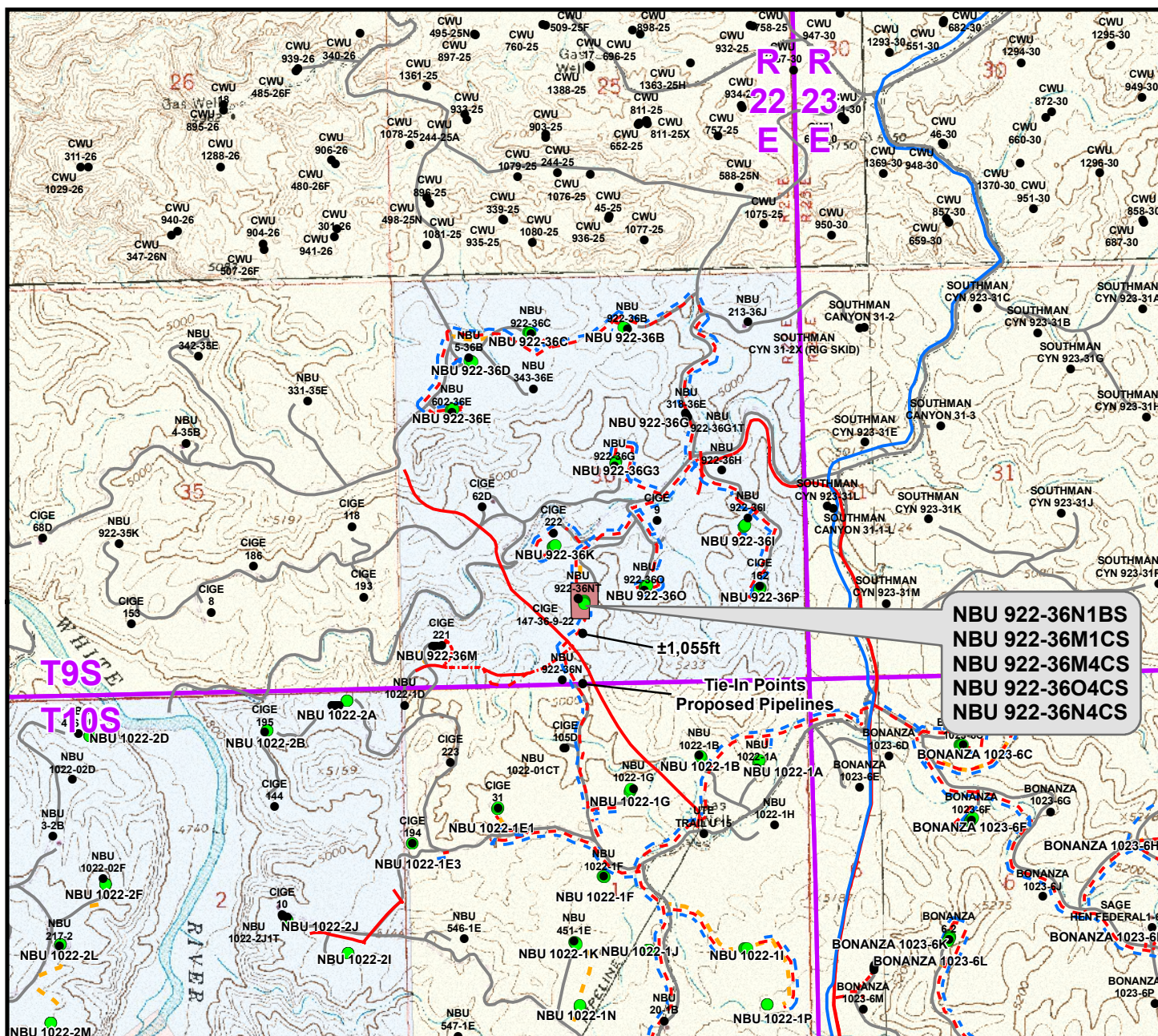


- Producing
- ★ Active
- ☉ Spudded (Drilling commenced: Not yet completed)
- ▲ Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- ⊕ Inactive
- ⊗ Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- ⊗ Location Abandoned
- ⊗ Dry hole marker, buried
- ⊗ Returned APD (Unapproved)

Scale: 1" = 2,000ft | NAD83 USP Central
Drawn: TL | Date: 3 Dec 2010
Revised: | Date:

Sheet No:

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Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (Max.) (Meter House to 36K Intersection)	±85ft	Proposed 6" (Meter House to 36K Intersection)	±85ft
Proposed 6" (Max.) (36K Intersection to South Line of Section 36)	±1,055ft	Proposed 16" (36K Intersection to South Line of Section 36)	±1,055ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,140ft	TOTAL PROPOSED GAS PIPELINE =	±1,140ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- - - Gas Pipeline - Proposed
- - - Gas Pipeline - To Be Upgraded
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - Proposed
- - - Liquid Pipeline - Existing
- - - Road - Proposed
- - - Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

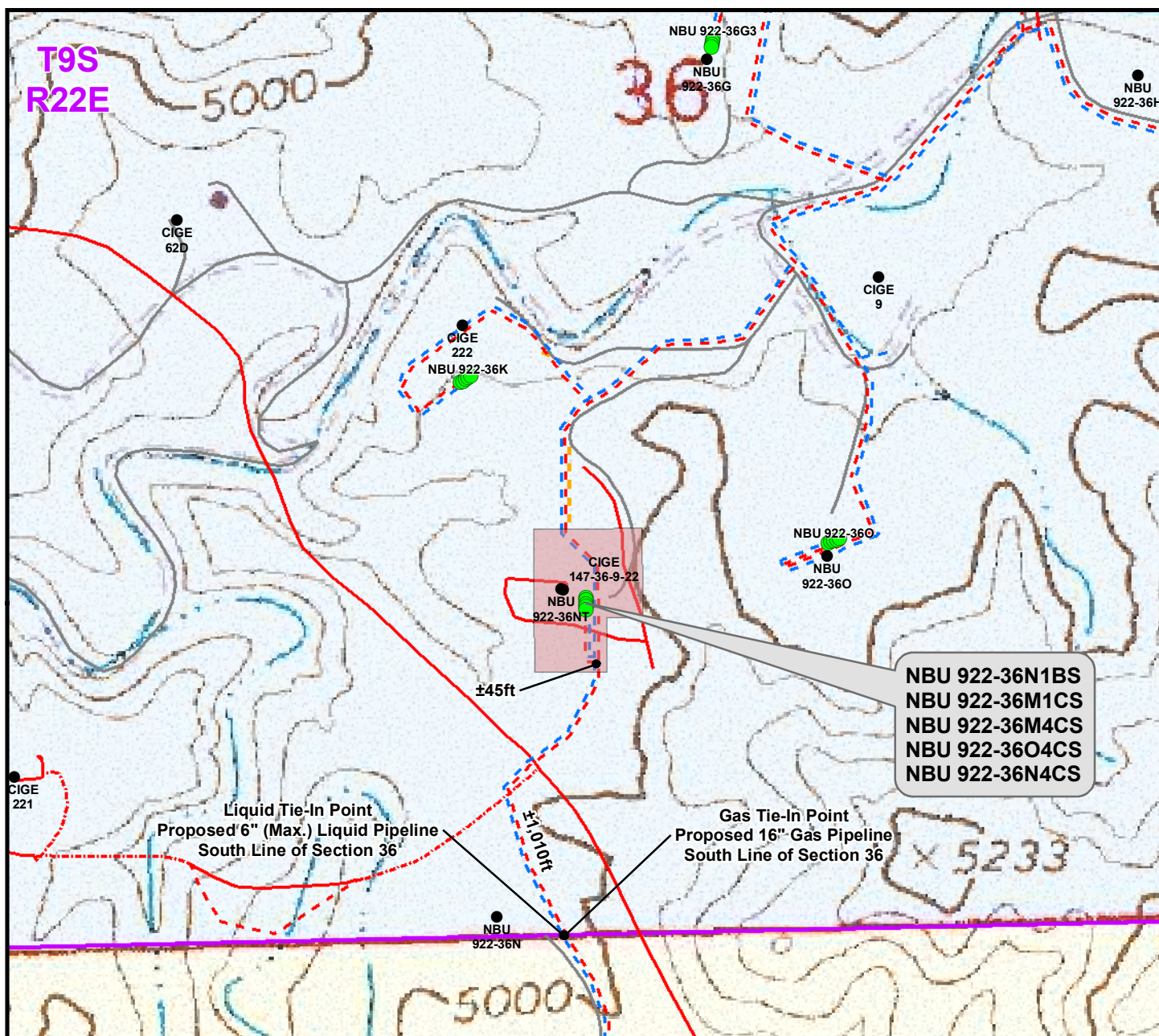
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36N

TOPO D
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 3 Dec 2010	14
Revised: TL	Date: 24 Jan 2011	14 of 17



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to 36K Intersection)	±85ft
Proposed 6" (Max.) (36K Intersection to South Line of Section 36)	±1,055ft
TOTAL PROPOSED LIQUID PIPELINE =	±1,140ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to 36K Intersection)	±85ft
Proposed 16" (36K Intersection to South Line of Section 36)	±1,055ft
TOTAL PROPOSED GAS PIPELINE =	±1,140ft

Legend

- Well - Proposed
 Well Pad
 --- Gas Pipeline - Proposed
 --- Liquid Pipeline - Proposed
 --- Road - Proposed
 Bureau of Land Management
- Well - Existing
 --- Gas Pipeline - To Be Upgraded
 --- Liquid Pipeline - Existing
 --- Road - Existing
 Indian Reservation
- Gas Pipeline - Existing
 State
 Private

Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

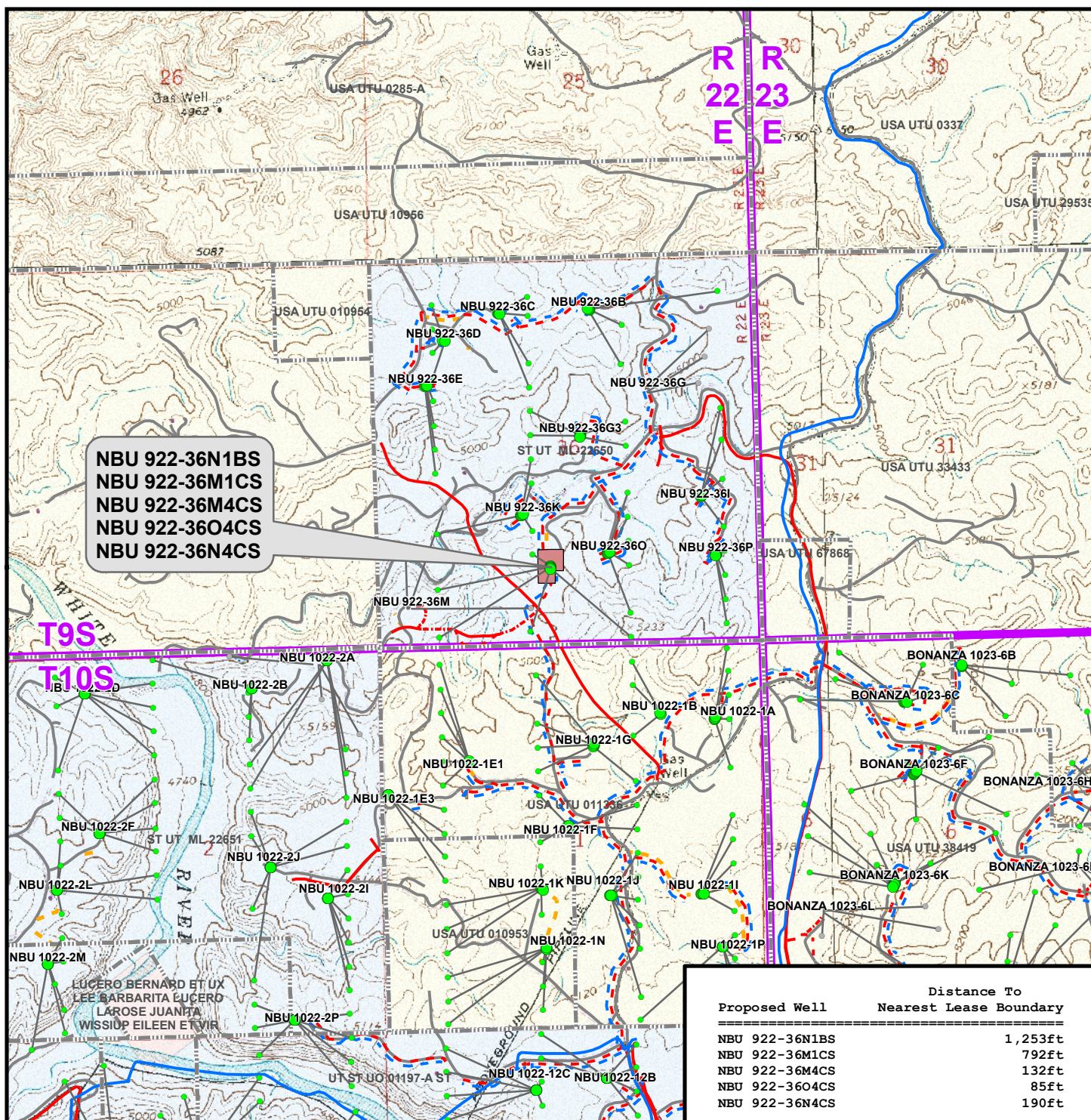
WELL PAD - NBU 922-36N

TOPO D2 (PAD & PIPELINE DETAIL)

NBU 922-36N1BS,
 NBU 922-36M1CS, NBU 922-36M4CS,
 NBU 922-36O4CS & NBU 922-36N4CS
 LOCATED IN SECTION 36, T9S, R22E,
 S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 3 Dec 2010	15 15 of 17
Revised: TL	Date: 24 Jan 2011	



Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- ▭ Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 922-36N

TOPO E
NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
LOCATED IN SECTION 36, T9S, R22E,
S.L.B.&M., UTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft

NAD83 USP Central

Sheet No:

Drawn: TL
Revised: TL

Date: 3 Dec 2010
Date: 24 Jan 2011

16 16 of 17

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-36N
WELLS – NBU 922-36N1BS,
NBU 922-36M1CS, NBU 922-36M4CS,
NBU 922-36O4CS & NBU 922-36N4CS
Section 36, T9S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidler Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidler Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southerly, then southeasterly direction along the Seven Sisters Road approximately 2.4 miles to a service road to the southwest. Exit right and proceed in a southwesterly, then northerly, then southwesterly direction along the service road approximately 0.8 miles to a second service road to the southwest. Exit right and proceed in a southwesterly direction along the second service road approximately 0.2 miles to the proposed access road. Follow road flags in a southerly direction approximately 320 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 45.8 miles in a southerly direction.

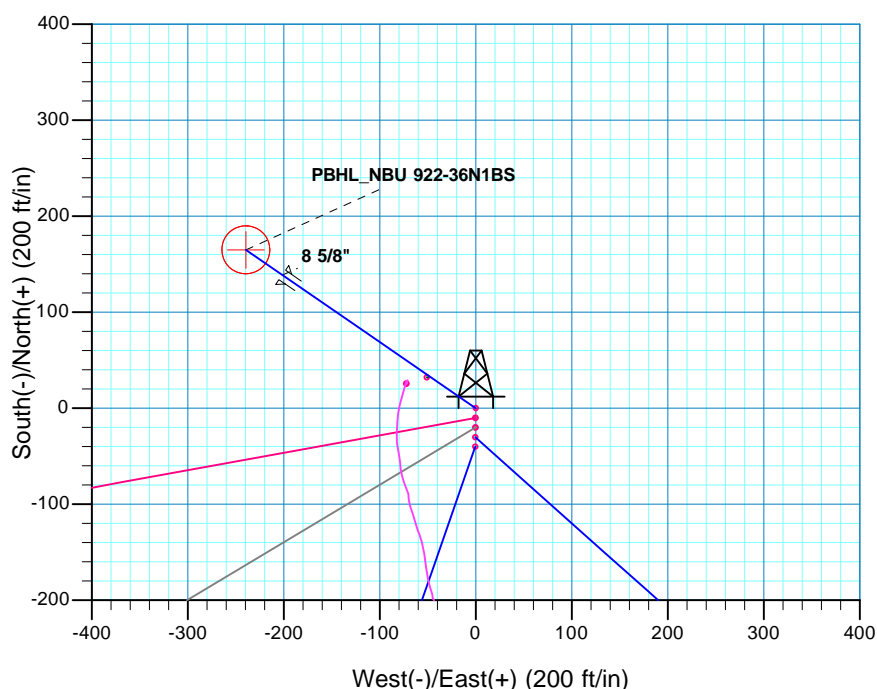
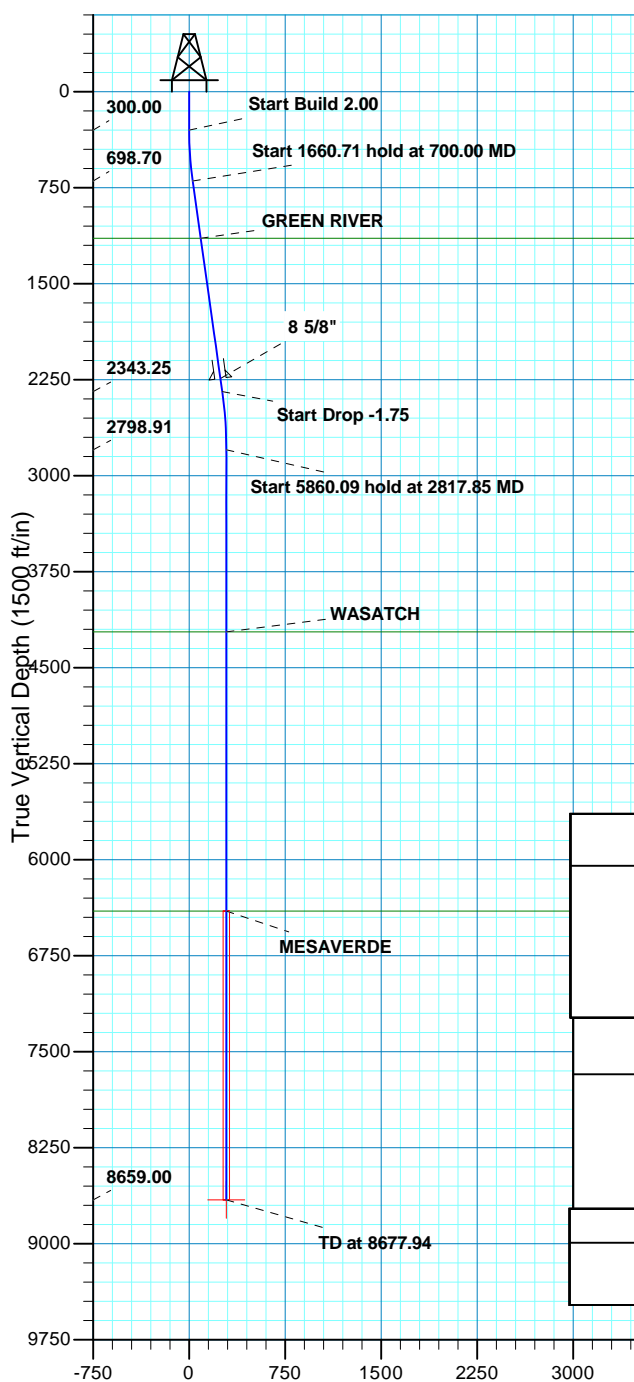
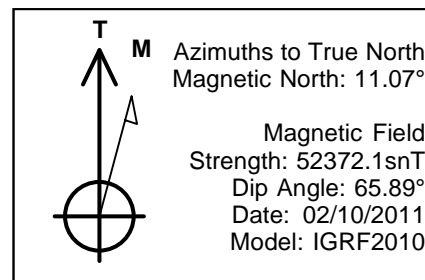
API Well Number: 43047515970000



Object: Uintah County, UT UTM12
 Site: NBU 922-36N PAD
 Well: NBU 922-36N1BS
 Wellbore: OH
 Design: PLAN #1 2-10-11 RHS



WELL DETAILS: NBU 922-36N1BS						
GL 4991' & KB 4' @ 4995.00ft (ASSUMED)						
+N/-S 0.00	+E/-W 0.00	Northing 14525849.61	Easting 2091804.66	Latitude 39° 59' 17.740 N	Longitude 109° 23' 18.776 W	
DESIGN TARGET DETAILS						
Name PBHL	TVD 8659.00	+N/-S 164.99	+E/-W -239.55	Northing 14526010.24	Easting 2091562.17	Latitude 39° 59' 19.370 N
- plan hits target center						
				Longitude 109° 23' 21.854 W	Shape Circle (Radius: 25.00)	



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
700.00	8.00	304.56	698.70	15.81	-22.96	2.00	304.56	27.88	
2360.71	8.00	304.56	2343.25	146.92	-213.30	0.00	0.00	259.01	
2817.85	0.00	0.00	2798.91	164.99	-239.55	1.75	180.00	290.87	
8677.94	0.00	0.00	8659.00	164.99	-239.55	0.00	0.00	290.87	PBHL_NBU 922-36N1BS
PROJECT DETAILS: Uintah County, UT UTM12							FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 - Western US Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION 36 T9S R22E System Datum: Mean Sea Level							TVDPath	MDPath	Formation
							1147.00	1152.70	GREEN RIVER
							4222.00	4240.94	WASATCH
							6402.00	6420.94	MESAVERDE
CASING DETAILS									
	TVD	MD	Name	Size					
	2241.00	2257.46	8 5/8"	8.625					

Plan: PLAN #1 2-10-11 RHS (NBU 922-36N1BS/OH)

Created By: RobertScott Date: 13:40, February 10 2011

RECEIVED: Jul. 26, 2011



Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 922-36N PAD

NBU 922-36N1BS

OH

Plan: PLAN #1 2-10-11 RHS

Standard Planning Report

10 February, 2011





SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36N1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site						NBU 922-36N PAD, SECTION 36 T9S R22E											
Site Position:			Northing:			14,525,849.61 usft			Latitude:			39° 59' 17.740 N					
From:			Lat/Long			Easting:			2,091,804.66 usft			Longitude:			109° 23' 18.776 W		
Position Uncertainty:			0.00 ft			Slot Radius:			13.200 in			Grid Convergence:			1.04		

Well	NBU 922-36N1BS, 1088 FSL 2379 FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,525,849.61 usft	Latitude:	39° 59' 17.740 N
	+E/-W	0.00 ft	Easting:	2,091,804.66 usft	Longitude:	109° 23' 18.776 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,991.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/2011	11.07	65.89	52,372

Design	PLAN #1 2-10-11 RHS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	304.56

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	8.00	304.56	698.70	15.81	-22.96	2.00	2.00	0.00	304.56	
2,360.71	8.00	304.56	2,343.25	146.92	-213.30	0.00	0.00	0.00	0.00	
2,817.85	0.00	0.00	2,798.91	164.99	-239.55	1.75	-1.75	0.00	180.00	
8,677.94	0.00	0.00	8,659.00	164.99	-239.55	0.00	0.00	0.00	0.00	PBHL_NBU 922-36N



SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36N1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	304.56	399.98	0.99	-1.44	1.75	2.00	2.00	0.00
500.00	4.00	304.56	499.84	3.96	-5.75	6.98	2.00	2.00	0.00
600.00	6.00	304.56	599.45	8.90	-12.92	15.69	2.00	2.00	0.00
700.00	8.00	304.56	698.70	15.81	-22.96	27.88	2.00	2.00	0.00
Start 1660.71 hold at 700.00 MD									
800.00	8.00	304.56	797.73	23.71	-34.42	41.80	0.00	0.00	0.00
900.00	8.00	304.56	896.76	31.60	-45.88	55.71	0.00	0.00	0.00
1,000.00	8.00	304.56	995.78	39.50	-57.35	69.63	0.00	0.00	0.00
1,100.00	8.00	304.56	1,094.81	47.39	-68.81	83.55	0.00	0.00	0.00
1,152.70	8.00	304.56	1,147.00	51.55	-74.85	90.88	0.00	0.00	0.00
GREEN RIVER									
1,200.00	8.00	304.56	1,193.84	55.29	-80.27	97.47	0.00	0.00	0.00
1,300.00	8.00	304.56	1,292.86	63.18	-91.73	111.38	0.00	0.00	0.00
1,400.00	8.00	304.56	1,391.89	71.08	-103.19	125.30	0.00	0.00	0.00
1,500.00	8.00	304.56	1,490.92	78.97	-114.65	139.22	0.00	0.00	0.00
1,600.00	8.00	304.56	1,589.94	86.86	-126.12	153.14	0.00	0.00	0.00
1,700.00	8.00	304.56	1,688.97	94.76	-137.58	167.05	0.00	0.00	0.00
1,800.00	8.00	304.56	1,788.00	102.65	-149.04	180.97	0.00	0.00	0.00
1,900.00	8.00	304.56	1,887.02	110.55	-160.50	194.89	0.00	0.00	0.00
2,000.00	8.00	304.56	1,986.05	118.44	-171.96	208.80	0.00	0.00	0.00
2,100.00	8.00	304.56	2,085.08	126.34	-183.42	222.72	0.00	0.00	0.00
2,200.00	8.00	304.56	2,184.10	134.23	-194.89	236.64	0.00	0.00	0.00
2,257.46	8.00	304.56	2,241.00	138.77	-201.47	244.64	0.00	0.00	0.00
8 5/8"									
2,300.00	8.00	304.56	2,283.13	142.13	-206.35	250.56	0.00	0.00	0.00
2,360.71	8.00	304.56	2,343.25	146.92	-213.30	259.01	0.00	0.00	0.00
Start Drop -1.75									
2,400.00	7.31	304.56	2,382.19	149.89	-217.62	264.24	1.75	-1.75	0.00
2,500.00	5.56	304.56	2,481.55	156.25	-226.85	275.45	1.75	-1.75	0.00
2,600.00	3.81	304.56	2,581.22	160.88	-233.58	283.62	1.75	-1.75	0.00
2,700.00	2.06	304.56	2,681.08	163.79	-237.80	288.75	1.75	-1.75	0.00
2,800.00	0.31	304.56	2,781.06	164.96	-239.51	290.82	1.75	-1.75	0.00
2,817.85	0.00	0.00	2,798.91	164.99	-239.55	290.87	1.75	-1.75	0.00
Start 5860.09 hold at 2817.85 MD									
2,900.00	0.00	0.00	2,881.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,000.00	0.00	0.00	2,981.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,100.00	0.00	0.00	3,081.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,200.00	0.00	0.00	3,181.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,300.00	0.00	0.00	3,281.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,400.00	0.00	0.00	3,381.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,500.00	0.00	0.00	3,481.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,600.00	0.00	0.00	3,581.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,700.00	0.00	0.00	3,681.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,800.00	0.00	0.00	3,781.06	164.99	-239.55	290.87	0.00	0.00	0.00
3,900.00	0.00	0.00	3,881.06	164.99	-239.55	290.87	0.00	0.00	0.00
4,000.00	0.00	0.00	3,981.06	164.99	-239.55	290.87	0.00	0.00	0.00



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36N1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,100.00	0.00	0.00	4,081.06	164.99	-239.55	290.87	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,181.06	164.99	-239.55	290.87	0.00	0.00	0.00	
4,240.94	0.00	0.00	4,222.00	164.99	-239.55	290.87	0.00	0.00	0.00	
WASATCH										
4,300.00	0.00	0.00	4,281.06	164.99	-239.55	290.87	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,381.06	164.99	-239.55	290.87	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,481.06	164.99	-239.55	290.87	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,581.06	164.99	-239.55	290.87	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,681.06	164.99	-239.55	290.87	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,781.06	164.99	-239.55	290.87	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,881.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,981.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,081.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,181.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,281.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,381.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,481.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,581.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,681.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,781.06	164.99	-239.55	290.87	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,881.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,981.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,081.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,181.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,281.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,381.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,420.94	0.00	0.00	6,402.00	164.99	-239.55	290.87	0.00	0.00	0.00	
MESAVERDE										
6,500.00	0.00	0.00	6,481.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,581.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,681.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,781.06	164.99	-239.55	290.87	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,881.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,981.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,081.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,181.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,281.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,381.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,481.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,581.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,681.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,781.06	164.99	-239.55	290.87	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,881.06	164.99	-239.55	290.87	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,981.06	164.99	-239.55	290.87	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,081.06	164.99	-239.55	290.87	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,181.06	164.99	-239.55	290.87	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,281.06	164.99	-239.55	290.87	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,381.06	164.99	-239.55	290.87	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,481.06	164.99	-239.55	290.87	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,581.06	164.99	-239.55	290.87	0.00	0.00	0.00	
8,677.94	0.00	0.00	8,659.00	164.99	-239.55	290.87	0.00	0.00	0.00	
TD at 8677.94 - PBHL_NBU 922-36N1BS										



SDI Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36N1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_NBU 922-36N1BS	0.00	0.00	8,659.00	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,257.46	2,241.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,152.70	1,147.00	GREEN RIVER			
4,240.94	4,222.00	WASATCH			
6,420.94	6,402.00	MESAVERDE			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
700.00	698.70	15.81	-22.96	Start 1660.71 hold at 700.00 MD
2,360.71	2,343.25	146.92	-213.30	Start Drop -1.75
2,817.85	2,798.91	164.99	-239.55	Start 5860.09 hold at 2817.85 MD
8,677.94	8,659.00	164.99	-239.55	TD at 8677.94



Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 922-36N PAD

NBU 922-36N1BS

OH

Plan: PLAN #1 2-10-11 RHS

Standard Planning Report - Geographic

10 February, 2011



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36N1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 922-36N PAD, SECTION 36 T9S R22E		
Site Position:		Northing:	14,525,849.61 usft
From:	Lat/Long	Easting:	2,091,804.66 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Grid Convergence:	1.04 °

Well	NBU 922-36N1BS, 1088 FSL 2379 FWL		
Well Position	+N/-S	0.00 ft	Northing: 14,525,849.61 usft
	+E/-W	0.00 ft	Easting: 2,091,804.66 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	Latitude: 39° 59' 17.740 N
			Longitude: 109° 23' 18.776 W
			Ground Level: 4,991.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/10/2011	11.07	65.89	52,372

Design	PLAN #1 2-10-11 RHS			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	304.56

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	8.00	304.56	698.70	15.81	-22.96	2.00	2.00	0.00	304.56	
2,360.71	8.00	304.56	2,343.25	146.92	-213.30	0.00	0.00	0.00	0.00	
2,817.85	0.00	0.00	2,798.91	164.99	-239.55	1.75	-1.75	0.00	180.00	
8,677.94	0.00	0.00	8,659.00	164.99	-239.55	0.00	0.00	0.00	0.00	PBHL_NBU 922-36N



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36N1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,525,849.61	2,091,804.66	39° 59' 17.740 N	109° 23' 18.776 W
100.00	0.00	0.00	100.00	0.00	0.00	14,525,849.61	2,091,804.66	39° 59' 17.740 N	109° 23' 18.776 W
200.00	0.00	0.00	200.00	0.00	0.00	14,525,849.61	2,091,804.66	39° 59' 17.740 N	109° 23' 18.776 W
300.00	0.00	0.00	300.00	0.00	0.00	14,525,849.61	2,091,804.66	39° 59' 17.740 N	109° 23' 18.776 W
Start Build 2.00									
400.00	2.00	304.56	399.98	0.99	-1.44	14,525,850.58	2,091,803.20	39° 59' 17.749 N	109° 23' 18.795 W
500.00	4.00	304.56	499.84	3.96	-5.75	14,525,853.47	2,091,798.84	39° 59' 17.779 N	109° 23' 18.850 W
600.00	6.00	304.56	599.45	8.90	-12.92	14,525,858.28	2,091,791.57	39° 59' 17.828 N	109° 23' 18.942 W
700.00	8.00	304.56	698.70	15.81	-22.96	14,525,865.01	2,091,781.41	39° 59' 17.896 N	109° 23' 19.071 W
Start 1660.71 hold at 700.00 MD									
800.00	8.00	304.56	797.73	23.71	-34.42	14,525,872.70	2,091,769.81	39° 59' 17.974 N	109° 23' 19.219 W
900.00	8.00	304.56	896.76	31.60	-45.88	14,525,880.38	2,091,758.21	39° 59' 18.052 N	109° 23' 19.366 W
1,000.00	8.00	304.56	995.78	39.50	-57.35	14,525,888.07	2,091,746.61	39° 59' 18.130 N	109° 23' 19.513 W
1,100.00	8.00	304.56	1,094.81	47.39	-68.81	14,525,895.75	2,091,735.00	39° 59' 18.208 N	109° 23' 19.661 W
1,152.70	8.00	304.56	1,147.00	51.55	-74.85	14,525,899.80	2,091,728.89	39° 59' 18.249 N	109° 23' 19.738 W
GREEN RIVER									
1,200.00	8.00	304.56	1,193.84	55.29	-80.27	14,525,903.44	2,091,723.40	39° 59' 18.286 N	109° 23' 19.808 W
1,300.00	8.00	304.56	1,292.86	63.18	-91.73	14,525,911.13	2,091,711.80	39° 59' 18.364 N	109° 23' 19.955 W
1,400.00	8.00	304.56	1,391.89	71.08	-103.19	14,525,918.81	2,091,700.20	39° 59' 18.442 N	109° 23' 20.102 W
1,500.00	8.00	304.56	1,490.92	78.97	-114.65	14,525,926.50	2,091,688.59	39° 59' 18.520 N	109° 23' 20.250 W
1,600.00	8.00	304.56	1,589.94	86.86	-126.12	14,525,934.18	2,091,676.99	39° 59' 18.598 N	109° 23' 20.397 W
1,700.00	8.00	304.56	1,688.97	94.76	-137.58	14,525,941.87	2,091,665.39	39° 59' 18.676 N	109° 23' 20.544 W
1,800.00	8.00	304.56	1,788.00	102.65	-149.04	14,525,949.56	2,091,653.79	39° 59' 18.754 N	109° 23' 20.691 W
1,900.00	8.00	304.56	1,887.02	110.55	-160.50	14,525,957.24	2,091,642.18	39° 59' 18.832 N	109° 23' 20.839 W
2,000.00	8.00	304.56	1,986.05	118.44	-171.96	14,525,964.93	2,091,630.58	39° 59' 18.910 N	109° 23' 20.986 W
2,100.00	8.00	304.56	2,085.08	126.34	-183.42	14,525,972.61	2,091,618.98	39° 59' 18.988 N	109° 23' 21.133 W
2,200.00	8.00	304.56	2,184.10	134.23	-194.89	14,525,980.30	2,091,607.38	39° 59' 19.066 N	109° 23' 21.281 W
2,257.46	8.00	304.56	2,241.00	138.77	-201.47	14,525,984.72	2,091,600.71	39° 59' 19.111 N	109° 23' 21.365 W
8 5/8"									
2,300.00	8.00	304.56	2,283.13	142.13	-206.35	14,525,987.99	2,091,595.77	39° 59' 19.144 N	109° 23' 21.428 W
2,360.71	8.00	304.56	2,343.25	146.92	-213.30	14,525,992.65	2,091,588.73	39° 59' 19.192 N	109° 23' 21.517 W
Start Drop -1.75									
2,400.00	7.31	304.56	2,382.19	149.89	-217.62	14,525,995.54	2,091,584.37	39° 59' 19.221 N	109° 23' 21.573 W
2,500.00	5.56	304.56	2,481.55	156.25	-226.85	14,526,001.73	2,091,575.02	39° 59' 19.284 N	109° 23' 21.691 W
2,600.00	3.81	304.56	2,581.22	160.88	-233.58	14,526,006.25	2,091,568.21	39° 59' 19.330 N	109° 23' 21.778 W
2,700.00	2.06	304.56	2,681.08	163.79	-237.80	14,526,009.08	2,091,563.94	39° 59' 19.359 N	109° 23' 21.832 W
2,800.00	0.31	304.56	2,781.06	164.96	-239.51	14,526,010.22	2,091,562.21	39° 59' 19.370 N	109° 23' 21.854 W
2,817.85	0.00	0.00	2,798.91	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
Start 5860.09 hold at 2817.85 MD									
2,900.00	0.00	0.00	2,881.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,000.00	0.00	0.00	2,981.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,100.00	0.00	0.00	3,081.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,200.00	0.00	0.00	3,181.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,300.00	0.00	0.00	3,281.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,400.00	0.00	0.00	3,381.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,500.00	0.00	0.00	3,481.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,600.00	0.00	0.00	3,581.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,700.00	0.00	0.00	3,681.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,800.00	0.00	0.00	3,781.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
3,900.00	0.00	0.00	3,881.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
4,000.00	0.00	0.00	3,981.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
4,100.00	0.00	0.00	4,081.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W



SDI
Planning Report - Geographic



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36N1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,200.00	0.00	0.00	4,181.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
4,240.94	0.00	0.00	4,222.00	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
WASATCH									
4,300.00	0.00	0.00	4,281.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
4,400.00	0.00	0.00	4,381.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
4,500.00	0.00	0.00	4,481.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
4,600.00	0.00	0.00	4,581.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
4,700.00	0.00	0.00	4,681.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
4,800.00	0.00	0.00	4,781.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
4,900.00	0.00	0.00	4,881.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,000.00	0.00	0.00	4,981.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,100.00	0.00	0.00	5,081.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,200.00	0.00	0.00	5,181.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,300.00	0.00	0.00	5,281.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,400.00	0.00	0.00	5,381.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,500.00	0.00	0.00	5,481.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,600.00	0.00	0.00	5,581.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,700.00	0.00	0.00	5,681.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,800.00	0.00	0.00	5,781.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
5,900.00	0.00	0.00	5,881.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,000.00	0.00	0.00	5,981.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,100.00	0.00	0.00	6,081.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,200.00	0.00	0.00	6,181.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,300.00	0.00	0.00	6,281.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,400.00	0.00	0.00	6,381.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,420.94	0.00	0.00	6,402.00	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
MESAVERDE									
6,500.00	0.00	0.00	6,481.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,600.00	0.00	0.00	6,581.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,700.00	0.00	0.00	6,681.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,800.00	0.00	0.00	6,781.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
6,900.00	0.00	0.00	6,881.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,000.00	0.00	0.00	6,981.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,100.00	0.00	0.00	7,081.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,200.00	0.00	0.00	7,181.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,300.00	0.00	0.00	7,281.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,400.00	0.00	0.00	7,381.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,500.00	0.00	0.00	7,481.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,600.00	0.00	0.00	7,581.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,700.00	0.00	0.00	7,681.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,800.00	0.00	0.00	7,781.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
7,900.00	0.00	0.00	7,881.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
8,000.00	0.00	0.00	7,981.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
8,100.00	0.00	0.00	8,081.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
8,200.00	0.00	0.00	8,181.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
8,300.00	0.00	0.00	8,281.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
8,400.00	0.00	0.00	8,381.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
8,500.00	0.00	0.00	8,481.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
8,600.00	0.00	0.00	8,581.06	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
8,677.94	0.00	0.00	8,659.00	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W
TD at 8677.94 - PBHL_NBU 922-36N1BS									

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 922-36N1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4991' & KB 4' @ 4995.00ft (ASSUMED)
Site:	NBU 922-36N PAD	North Reference:	True
Well:	NBU 922-36N1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 2-10-11 RHS		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_NBU 922-36N1BS - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,659.00	164.99	-239.55	14,526,010.25	2,091,562.17	39° 59' 19.370 N	109° 23' 21.854 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,257.46	2,241.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,152.70	1,147.00	GREEN RIVER			
4,240.94	4,222.00	WASATCH			
6,420.94	6,402.00	MESAVERDE			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 2.00	
700.00	698.70	15.81	-22.96	Start 1660.71 hold at 700.00 MD	
2,360.71	2,343.25	146.92	-213.30	Start Drop -1.75	
2,817.85	2,798.91	164.99	-239.55	Start 5860.09 hold at 2817.85 MD	
8,677.94	8,659.00	164.99	-239.55	TD at 8677.94	

NBU 922-36M1CS

Surface: 1078' FSL 2379' FWL (SE/4SW/4)
BHL: 792' FSL 816' FWL (SW/4SW/4)

NBU 922-36M4CS

Surface: 1068' FSL 2379' FWL (SE/4SW/4)
BHL: 132' FSL 819' FWL (SW/4SW/4)

NBU 922-36N1BS

Surface: 1088' FSL 2379' FWL (SE/4SW/4)
BHL: 1253' FSL 2140' FWL (SE/4SW/4)

NBU 922-36N4CS

Surface: 1048' FSL 2379' FWL (SE/4SW/4)
BHL: 190' FSL 2081' FWL (SE/4SW/4)

NBU 922-36O4CS

Surface: 1058' FSL 2379' FWL (SE/4SW/4)
BHL: 85' FSL 1814' FEL (SW/4SE/4)

Pad: NBU 922-36N Pad
Section 36 T9S R22E
Mineral Lease: ML-22650

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable

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condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

One new access road is proposed (see Topo Map B). The $\pm 320'$ road re-route will run perpendicularly from the North edge of the pad along the proposed gas and liquid pipelines due to the expansion of the pad. Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

During the onsite, turnouts, major cut and fills, culverts, bridges, gates, cattle guards, low water crossings, or modifications needed to existing infrastructure/facilities were determined, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 922-36NT and CIGE 147-36-9-22. The NBU 922-36NT well location is a vertical producing wells according to Utah Division of Oil, Gas and Mining (UDOGM) records as of May 5, 2011. The CIGE 147-36-9-22 well location has been plugged and abandoned.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

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Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,140'$ and the individual segments are broken up as follows:

- $\pm 85'$ (0.02 miles) –New 6" buried gas pipeline from the meter to tie-in to the proposed 16" buried gas pipeline at the proposed 36K intersection. Please refer to Topo D2.
- $\pm 1,055'$ (0.2 miles) –New 16" buried gas pipeline from the proposed 36K intersection to the South line of Section 36. Please refer to Topo D.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 1,140'$ and the individual segments are broken up as follows:

- $\pm 85'$ (0.02 miles) –New 6" buried liquid pipeline from the separator to tie-in to the proposed 6" buried liquid pipeline at the 36K intersection. Please refer to Topo D2.
- $\pm 1,055'$ (0.2 miles) –New 6" buried liquid pipeline from the proposed 36 K intersection to the South line of Section 36. Please refer to Topo D.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. KMG requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, KMG requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

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D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

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Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the

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contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit, access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well

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plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

**NBU 922-36M1CS / 36M4CS/
36N1BS/ 36N4CS/ 36O4CS**

**Surface Use Plan of Operations
Page 8**

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

K. Other Information:

None

NBU 922-36M1CS / 36M4CS/
36N1BS/ 36N4CS/ 36O4CS

Surface Use Plan of Operations
Page 9

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724


Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Gina T. Becker

May 13, 2011
Date



JOE JOHNSON
LANDMAN

KERR-MCGEE ONSHORE OIL & GAS, L.P.
1099 18TH STREET, SUITE 1800
DENVER, CO 80202
720-929-6708 • FAX 720-929-7708
E-MAIL: JOE.JOHNSON@ANADARKO.COM

April 13, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 922-36N1BS
T9S-R22E
Section 36: SESW/SESW
Surface: 1088' FSL, 2379' FWL
Bottom Hole: 1253' FSL, 2140' FWL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-36N1BS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

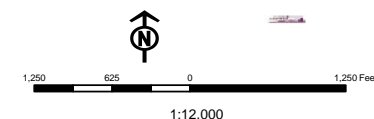
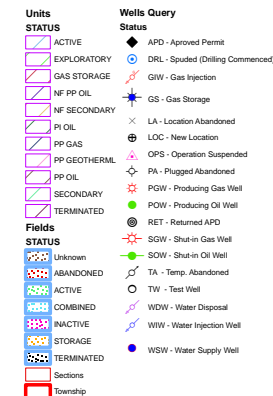
Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink, appearing to read 'Joe D. Johnson', with a horizontal line underneath.

Joseph D. Johnson
Landman

Map Produced by Diana Mason



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

May 20, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 922-36I PAD

43-047-51586	NBU 922-36H4BS	Sec 36 T09S R22E 2006 FSL 0799 FEL
	BHL	Sec 36 T09S R22E 2071 FNL 0494 FEL

43-047-51587	NBU 922-36H4CS	Sec 36 T09S R22E 2014 FSL 0792 FEL
	BHL	Sec 36 T09S R22E 2508 FNL 0495 FEL

43-047-51588	NBU 922-36I1CS	Sec 36 T09S R22E 2021 FSL 0785 FEL
	BHL	Sec 36 T09S R22E 2237 FSL 0494 FEL

43-047-51589	NBU 922-36I4CS	Sec 36 T09S R22E 1999 FSL 0805 FEL
	BHL	Sec 36 T09S R22E 1574 FSL 0493 FEL

NBU 922-36K PAD

43-047-51590	NBU 922-36K1BS	Sec 36 T09S R22E 1798 FSL 1998 FWL
	BHL	Sec 36 T09S R22E 2567 FSL 2148 FWL

43-047-51591	NBU 922-36K1CS	Sec 36 T09S R22E 1809 FSL 2015 FWL
	BHL	Sec 36 T09S R22E 2236 FSL 2147 FWL

43-047-51592	NBU 922-36K4BS	Sec 36 T09S R22E 1815 FSL 2023 FWL
	BHL	Sec 36 T09S R22E 1904 FSL 2147 FWL

43-047-51593	NBU 922-36K4CS	Sec 36 T09S R22E 1804 FSL 2006 FWL
	BHL	Sec 36 T09S R22E 1573 FSL 2146 FWL

43-047-51594	NBU 922-36L4CS	Sec 36 T09S R22E 1793 FSL 1990 FWL
	BHL	Sec 36 T09S R22E 1565 FSL 0821 FWL

RECEIVED: Jul. 26, 2011

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 922-36N PAD

43-047-51595	NBU 922-36M1CS	Sec 36 T09S R22E 1078 FSL 2379 FWL
	BHL	Sec 36 T09S R22E 0792 FSL 0816 FWL
43-047-51596	NBU 922-36M4CS	Sec 36 T09S R22E 1068 FSL 2379 FWL
	BHL	Sec 36 T09S R22E 0132 FSL 0819 FWL
43-047-51597	NBU 922-36N1BS	Sec 36 T09S R22E 1088 FSL 2379 FWL
	BHL	Sec 36 T09S R22E 1253 FSL 2140 FWL
43-047-51598	NBU 922-36N4CS	Sec 36 T09S R22E 1048 FSL 2379 FWL
	BHL	Sec 36 T09S R22E 0190 FSL 2081 FWL
43-047-51599	NBU 922-36O4CS	Sec 36 T09S R22E 1058 FSL 2379 FWL
	BHL	Sec 36 T09S R22E 0085 FSL 1814 FEL

NBU 922-36O PAD

43-047-51600	NBU 922-36J1CS	Sec 36 T09S R22E 1247 FSL 2113 FEL
	BHL	Sec 36 T09S R22E 2071 FSL 1809 FEL
43-047-51601	NBU 922-36J4BS	Sec 36 T09S R22E 1254 FSL 2094 FEL
	BHL	Sec 36 T09S R22E 1740 FSL 1816 FEL
43-047-51602	NBU 922-36J4CS	Sec 36 T09S R22E 1261 FSL 2075 FEL
	BHL	Sec 36 T09S R22E 1409 FSL 1816 FEL
43-047-51603	NBU 922-36O1BS	Sec 36 T09S R22E 1257 FSL 2085 FEL
	BHL	Sec 36 T09S R22E 1078 FSL 1815 FEL
43-047-51604	NBU 922-36O4BS	Sec 36 T09S R22E 1250 FSL 2103 FEL
	BHL	Sec 36 T09S R22E 0415 FSL 1814 FEL

NBU 922-36P PAD

43-047-51605	NBU 922-36P1BS	Sec 36 T09S R22E 1207 FSL 0606 FEL
	BHL	Sec 36 T09S R22E 1243 FSL 0493 FEL
43-047-51606	NBU 922-36P1CS	Sec 36 T09S R22E 1198 FSL 0611 FEL
	BHL	Sec 36 T09S R22E 0911 FSL 0493 FEL
43-047-51607	NBU 922-36P4BS	Sec 36 T09S R22E 1189 FSL 0616 FEL
	BHL	Sec 36 T09S R22E 0580 FSL 0493 FEL
43-047-51608	NBU 922-36P4CS	Sec 36 T09S R22E 1181 FSL 0621 FEL
	BHL	Sec 36 T09S R22E 0243 FSL 0492 FEL

NBU 922-36B PAD

43-047-51609	NBU 922-36A1CS	Sec 36 T09S R22E 0678 FNL 2273 FEL
	BHL	Sec 36 T09S R22E 0485 FNL 0494 FEL
43-047-51610	NBU 922-36B1CS	Sec 36 T09S R22E 0674 FNL 2282 FEL
	BHL	Sec 36 T09S R22E 0579 FNL 1821 FEL
43-047-51611	NBU 922-36B4BS	Sec 36 T09S R22E 0682 FNL 2264 FEL
	BHL	Sec 36 T09S R22E 0905 FNL 1828 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51612	NBU 922-36G1BS	Sec 36 T09S R22E 0671 FNL 2291 FEL
	BHL	Sec 36 T09S R22E 1439 FNL 1861 FEL
NBU 922-36C PAD		
43-047-51613	NBU 922-36C1CS	Sec 36 T09S R22E 0700 FNL 1741 FWL
	BHL	Sec 36 T09S R22E 0485 FNL 2152 FWL
43-047-51614	NBU 922-36C4BS	Sec 36 T09S R22E 0706 FNL 1749 FWL
	BHL	Sec 36 T09S R22E 0746 FNL 2153 FWL
43-047-51615	NBU 922-36F1BS	Sec 36 T09S R22E 0718 FNL 1765 FWL
	BHL	Sec 36 T09S R22E 1407 FNL 2151 FWL
43-047-51616	NBU 922-36F1CS	Sec 36 T09S R22E 0712 FNL 1757 FWL
	BHL	Sec 36 T09S R22E 1738 FNL 2150 FWL
NBU 922-36D PAD		
43-047-51617	NBU 922-36D1CS	Sec 36 T09S R22E 1062 FNL 0981 FWL
	BHL	Sec 36 T09S R22E 0579 FNL 0825 FWL
43-047-51618	NBU 922-36D4BS	Sec 36 T09S R22E 1060 FNL 0971 FWL
	BHL	Sec 36 T09S R22E 0910 FNL 0825 FWL
43-047-51619	NBU 922-36D4CS	Sec 36 T09S R22E 1064 FNL 0990 FWL
	BHL	Sec 36 T09S R22E 1241 FNL 0825 FWL
43-047-51620	NBU 922-36E1BS	Sec 36 T09S R22E 1067 FNL 1000 FWL
	BHL	Sec 36 T09S R22E 1572 FNL 0825 FWL
NBU 922-36E PAD		
43-047-51621	NBU 922-36E1CS	Sec 36 T09S R22E 1682 FNL 0739 FWL
	BHL	Sec 36 T09S R22E 1903 FNL 0824 FWL
43-047-51622	NBU 922-36E4BS	Sec 36 T09S R22E 1684 FNL 0729 FWL
	BHL	Sec 36 T09S R22E 2245 FNL 0818 FWL
43-047-51623	NBU 922-36E4CS	Sec 36 T09S R22E 1686 FNL 0719 FWL
	BHL	Sec 36 T09S R22E 2565 FNL 0824 FWL
43-047-51624	NBU 922-36L1BS	Sec 36 T09S R22E 1688 FNL 0709 FWL
	BHL	Sec 36 T09S R22E 2401 FSL 0824 FWL
NBU 922-36G3 PAD		
43-047-51625	NBU 922-36F4BS	Sec 36 T09S R22E 2414 FNL 2443 FEL
	BHL	Sec 36 T09S R22E 2070 FNL 2149 FWL
43-047-51626	NBU 922-36F4CS	Sec 36 T09S R22E 2424 FNL 2445 FEL
	BHL	Sec 36 T09S R22E 2401 FNL 2149 FWL
43-047-51627	NBU 922-36G4BS	Sec 36 T09S R22E 2405 FNL 2441 FEL
	BHL	Sec 36 T09S R22E 2235 FNL 1818 FEL
43-047-51628	NBU 922-36G4CS	Sec 36 T09S R22E 2434 FNL 2447 FEL
	BHL	Sec 36 T09S R22E 2566 FNL 1818 FEL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land
Management, ou=Branch of Minerals,
email=Michael_Coulthard@blm.gov, c=US
Date: 2011.05.23 07:16:05 -06'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:5-20-11

From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana
CC: Gina Becker; Lytle, Andy
Date: 6/8/2011 3:00 PM
Subject: Kerr McGee APD approvals.

The following APDs have been approved by SITLA including arch and paleo clearance.

4304751586 NBU 922-36H4BS
4304751587 NBU 922-36H4CS
4304751588 NBU 922-36I1CS
4304751589 NBU 922-36I4CS
4304751590 NBU 922-36K1BS
4304751591 NBU 922-36K1CS
4304751592 NBU 922-36K4BS
4304751593 NBU 922-36K4CS
4304751594 NBU 922-36L4CS
4304751595 NBU 922-36M1CS
4304751596 NBU 922-36M4CS
4304751597 NBU 922-36N1BS
4304751598 NBU 922-36N4CS
4304751599 NBU 922-36O4CS
4304751600 NBU 922-36J1CS
4304751601 NBU 922-36J4BS
4304751602 NBU 922-36J4CS
4304751603 NBU 922-36O1BS
4304751604 NBU 922-36O4BS
4304751605 NBU 922-36P1BS
4304751606 NBU 922-36P1CS
4304751607 NBU 922-36P4BS
4304751608 NBU 922-36P4CS
4304751613 NBU 922-36C1CS
4304751614 NBU 922-36C4BS
4304751615 NBU 922-36F1BS
4304751616 NBU 922-36F1CS
4304751617 NBU 922-36D1CS
4304751618 NBU 922-36D4BS
4304751619 NBU 922-36D4CS
4304751620 NBU 922-36E1BS
4304751621 NBU 922-36E1CS
4304751622 NBU 922-36E4BS
4304751623 NBU 922-36E4CS
4304751624 NBU 922-36L1BS
4304751625 NBU 922-36F4BS
4304751626 NBU 922-36F4CS
4304751627 NBU 922-36G4BS
4304751628 NBU 922-36G4CS

Full paleo monitoring is a required condition for the approval of these APDs- as recommended in the paleo report.

4304751609 NBU 922-36A1CS
4304751610 NBU 922-36B1CS
4304751611 NBU 922-36B4BS
4304751612 NBU 922-36G1BS

Thanks.
-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 922-36N1BS			
String	Surf	Prod		
Casing Size(in)	8.625	4.500		
Setting Depth (TVD)	2224	8659		
Previous Shoe Setting Depth (TVD)	40	2224		
Max Mud Weight (ppg)	8.4	12.5		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5542	12.3		

Calculations	Surf String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	971		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	704	NO	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	482	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	491	NO	Reasonable
Required Casing/BOPE Test Pressure=		2224	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient	

Calculations	Prod String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	5628		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4589	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3723	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4212	NO	Reasonable
Required Casing/BOPE Test Pressure=		5000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2224	psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

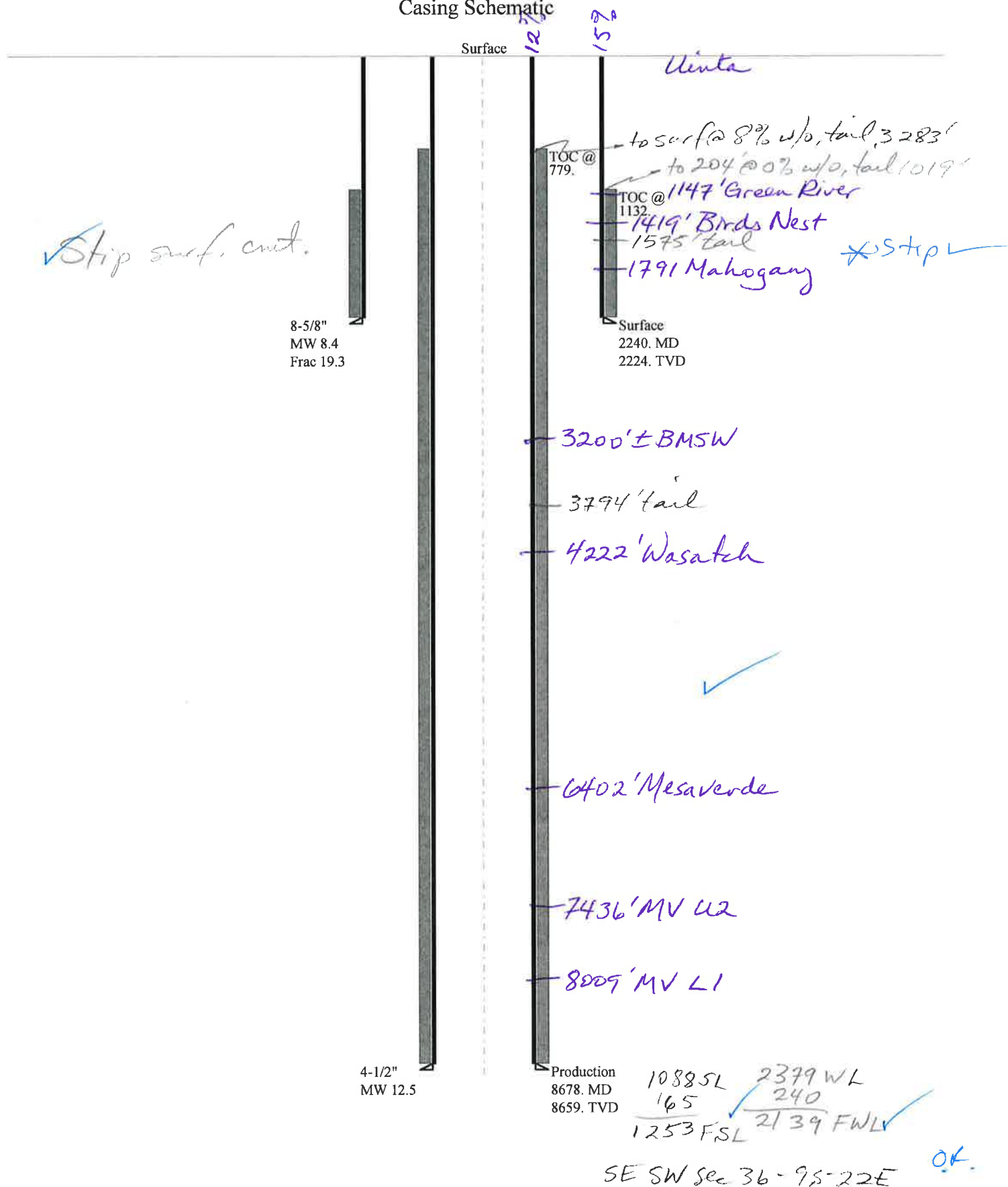
Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	

API Well Number: 43047515970000

*Max Pressure Allowed @ Previous Casing Shoe=	<input type="text"/>	psi *Assumes 1psi/ft frac gradient
---	----------------------	------------------------------------

43047515970000 NBU 922-36N1BS

Casing Schematic



Well name:	43047515970000 NBU 922-36N1BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Surface	Project ID: 43-047-51597
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 105 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,132 ft

Burst

Max anticipated surface pressure: 1,957 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,224 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 1,962 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 242 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 8 °

Re subsequent strings:

Next setting depth: 8,659 ft
Next mud weight: 12.500 ppg
Next setting BHP: 5,623 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,224 ft
Injection pressure: 2,224 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2240	8.625	28.00	I-55	LT&C	2224	2240	7.892	88704

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	970	1880	1.937	2224	3390	1.52	62.3	348	5.59 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: July 19, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2224 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

RECEIVED: Jul. 26, 2011

Well name:	43047515970000 NBU 922-36N1BS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-51597
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 12.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 195 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 779 ft

Burst

Max anticipated surface pressure: 3,718 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,623 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 291 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.
Neutral point: 7,060 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8678	4.5	11.60	I-80	LT&C	8659	8678	3.875	114550

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5623	6360	1.131	5623	7780	1.38	100.4	212	2.11 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: July 19, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8659 ft, a mud weight of 12.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

RECEIVED: Jul. 26, 2011

ON-SITE PREDRILL EVALUATION**Utah Division of Oil, Gas and Mining**

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.				
Well Name	NBU 922-36N1BS				
API Number	43047515970000	APD No	3814	Field/Unit	NATURAL BUTTES
Location: 1/4,1/4	SESW	Sec	36	Tw	9.0S
		Rng	22.0E	1088	FSL 2379 FWL
GPS Coord (UTM)	637584	4427492	Surface Owner		

Participants

Floyd Bartlett (DOGM), Sheila Wopsock, Lovell Young, Gina Becker, Mark Koehn, Griz Oleen (Kerr McGee), Ben Williams (UDWR) and Mitch Batty, John Slaugh (Timberline Engineering and Land Surveying).

Regional/Local Setting & Topography

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from $\frac{3}{4}$ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 42 air miles to the northwest. Access from Vernal is approximately 45.8 road miles following Utah State, Uintah County and oilfield development roads to the location.

Five additional gas wells will be added to and directionally drilled from the NBU 922-36N pad. They are the NBU 922-36N1BS, NBU 922-36M1CS, NBU 922-36M4CS, NBU 922-36O4CS and NBU 922-36N4CS. The pad contains the existing MBU 922-36NT gas well. The terrain in the immediate area is rough and broken. The existing pad will be reoriented to a north to south direction and significantly enlarged. A deep gulley occurs between Location Corners 1 and 10. It will be completely filled. The gentle head of this drainage will be diverted and rerouted along the south side of the pad from Corners 8 to 10. A ridge is located to the east and a draw and gully to the north of the site. A cut of 8.4 feet occurs at Corner 5. Maximum fill is 7.7 feet at Location Corner 10. Where the pad is cut into steep side slope behind the pit, the cut slope may be left at about $\frac{1}{4}$:1 to reduce the amount of cutting and disturbance. Reserve pit corner A is in 3.4 feet of fill. With the proposed 15 foot outer bench, 2 feet of freeboard, a 30-mil liner and the spoils placed along this side, it should be stable. The existing pad shows no stability problems. Although significant excavation is required for enlarging the pad, no stability concerns exist. The selected site is the only suitable location in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan**Current Surface Use**

Grazing
Wildlife Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 353 Length 455	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters**Affected Floodplains and/or Wetlands** N**Flora / Fauna**

Area beyond the existing pad is poorly vegetated with blue bunch wheatgrass, Indian ricegrass, greasewood, cheatgrass, black sagebrush, broom snakeweed, globemallow, Sitanion hystrix, shadscale, rabbitbrush, loco weed, pepper weed, halogeton and annuals.

Sheep, deer, antelope, coyote, and other small mammals and birds.

Soil Type and Characteristics

Soils are shallow and rocky.

Erosion Issues Y**Sedimentation Issues** Y**Site Stability Issues** N**Drainage Diversion Required?** Y

A deep gully occurs between Location Corners 1 and 10. It will be completely filled. The gentle head of this drainage will be diverted and rerouted along the south side of the pad from Corners 8 to 10.

Berm Required? N**Erosion Sedimentation Control Required?** Y

A deep gully occurs between Location Corners 1 and 10. It will be completely filled. The gentle head of this drainage will be diverted and rerouted along the south side of the pad from Corners 8 to 10.

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit**Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		40

1 Sensitivity Level

Characteristics / Requirements

The reserve pit is planned mostly in an area of cut in the northwest side of the location. Dimensions are 100' x 260' x 12' deep with 2' of freeboard. Corner A is within 3.4 feet of fill. With the proposed 15 foot outer bench, 2 feet of freeboard, a 30-mil liner and the spoils placed along this side, it should be stable.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 30 Pit Underlayment Required? Y

Other Observations / Comments

Floyd Bartlett

Evaluator

5/24/2011

Date / Time

Application for Permit to Drill

Statement of Basis

7/26/2011

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3814	43047515970000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 922-36N1BS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	SESW 36 9S 22E S 1088 FSL 2379 FWL GPS Coord (UTM)			637581E	4427488N

Geologic Statement of Basis

Kerr McGee proposes to set 2,240' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,200'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The production casing cement should be brought up above the base of the moderately saline ground water in order to isolate it from fresher waters up hole. The proposed casing and cement should adequately protect any usable ground water.

Brad Hill
APD Evaluator

6/21/2011
Date / Time

Surface Statement of Basis

The general area is in the southeast portion of the Natural Buttes Unit, which contains the White River and rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from $\frac{3}{4}$ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 42 air miles to the northwest. Access from Vernal is approximately 45.8 road miles following Utah State, Uintah County and oilfield development roads to the location.

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Both the surface and minerals are owned by SITLA. Ed Bonner and Jim Davis of SITLA were invited to attend the pre-site evaluation. Neither attended. SITLA is to be contacted for reclamation standards including a seed mix to be used.

Ben Williams of the Utah Division of Wildlife Resources attended the pre-site. Mr. Williams stated no wildlife values would be significantly affected by drilling and operating the additional wells at this location.

RECEIVED: Jul. 26, 2011

Application for Permit to Drill Statement of Basis

7/26/2011

Utah Division of Oil, Gas and Mining

Page 2

Floyd Bartlett
Onsite Evaluator

5/24/2011
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/14/2011**API NO. ASSIGNED:** 43047515970000**WELL NAME:** NBU 922-36N1BS**OPERATOR:** KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)**PHONE NUMBER:** 720 929-6086**CONTACT:** Gina Becker**PROPOSED LOCATION:** SESW 36 090S 220E**Permit Tech Review:** ☒**SURFACE:** 1088 FSL 2379 FWL**Engineering Review:** ☒**BOTTOM:** 1253 FSL 2140 FWL**Geology Review:** ☒**COUNTY:** UINTAH**LATITUDE:** 39.98826**LONGITUDE:** -109.38858**UTM SURF EASTINGS:** 637581.00**NORTHINGS:** 4427488.00**FIELD NAME:** NATURAL BUTTES**LEASE TYPE:** 3 - State**LEASE NUMBER:** ML-22650**PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE**SURFACE OWNER:** 3 - State**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**☒ **PLAT**☒ **Bond:** STATE/FEE - 22013542☐ **Potash**☒ **Oil Shale 190-5**☐ **Oil Shale 190-3**☐ **Oil Shale 190-13**☒ **Water Permit:** Permit #43-8496☐ **RDCC Review:**☐ **Fee Surface Agreement**☒ **Intent to Commingle****Commingle Approved****LOCATION AND SITING:**☐ **R649-2-3.****Unit:** NATURAL BUTTES☐ **R649-3-2. General**☐ **R649-3-3. Exception**☒ **Drilling Unit****Board Cause No:** Cause 173-14**Effective Date:** 12/2/1999**Siting:** Suspends General Siting☒ **R649-3-11. Directional Drill****Comments:** Presite Completed

Stipulations: 3 - Commingle - ddoucet
5 - Statement of Basis - bhll
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - ddoucet

RECEIVED: Jul. 26, 2011



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-36N1BS
API Well Number: 43047515970000
Lease Number: ML-22650
Surface Owner: STATE
Approval Date: 7/26/2011

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
 Well Name/Number NBU 922-36N1BS
 Qtr/Qtr SE/SW Section 36 Township 9S Range 22E
 Lease Serial Number ML-22650
 API Number 4304751597

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 10/07/2011 0800 HRS AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

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OCT 06 2011

DIV. OF OIL, GAS & MINING

Date/Time 10/10/2011 0800 HRS AM ☒ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT
LOVEL YOUNG AT 435.781.7051 FOR MORE

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22650
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-36N1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1088 FSL 2379 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047515970000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/17/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> ALTER CASING	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON OCT. 15, 2011. DRILLED SURFACE HOLE TO 2306'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/18/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22650
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-36N1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1088 FSL 2379 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047515970000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 10/11/2011	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 10/11/2011 AT 1000 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/12/2011	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751597	NBU 922-36N1BS		SESW	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	10/11/2011			<u>10/14/11</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL ON 10/11/2011 AT 1000 HRS. <u>BHL = SESW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751595	NBU 922-36M1CS		SESW	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	10/9/2011			<u>10/14/11</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL ON 10/09/2011 AT 1400 HRS. <u>BHL = SWSW</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751596	NBU 922-36M4CS		SESW	36	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<u>B</u>	99999	<u>2900</u>	10/8/2011			<u>10/14/11</u>	
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL ON 10/08/2011 AT 10/08/2011 AT 1330 HRS. <u>BHL = SWSW</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

10/12/2011

Date

(5/2000)

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OCT 12 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22650
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-36N1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1088 FSL 2379 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047515970000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

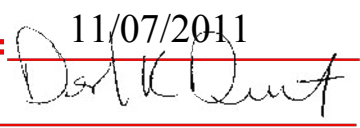
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/18/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 The operator requests changes to the drilling program to allow for the use of a Closed Loop system, and requests a variance for FIT Requirements. Please see attached explanation. Thank you.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 11/07/2011

By: 

NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/18/2011	

Requested Drilling Changes:

Closed Loop

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Variance for FIT Requirements

Kerr-McGee requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 922-36N1BS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1088 FSL 2379 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 36 Township: 09.0S Range: 22.0E Meridian: S		9. API NUMBER: 43047515970000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/21/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> ALTER CASING	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2306' TO 8734' ON NOV. 18, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED EXTREME RIG 12 ON NOV. 21, 2011 @ 11:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/22/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22650
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PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/3/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 02/03/2012 AT 1800 HRS. THE CHONROLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 08, 2012		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/7/2012	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22650	
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME UTU63047A	
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217		8. WELL NAME and NUMBER: NBU 922-36N1BS	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SESW 1088 FSL 2379 FWL S36,T9S,R22E AT TOP PRODUCING INTERVAL REPORTED BELOW: SESW 1271 FSL 2134 FWL S36,T9S,R22E AT TOTAL DEPTH: SESW 1257 FSL 2154 FWL S36,T9S,R22E		9. API NUMBER: 4304751597	
14. DATE SPUDED: 10/11/2011		10 FIELD AND POOL, OR WILDCAT NATURAL BUTTES	
15. DATE T.D. REACHED: 11/18/2011		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 36 9S 22E S	
16. DATE COMPLETED: 2/3/2012		12. COUNTY UINTAH	
ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH	
17. ELEVATIONS (DF, RKB, RT, GL): 4991GL			
18. TOTAL DEPTH: MD 8,734 TVD 8,695		21. DEPTH BRIDGE MD PLUG SET: TVD	
19. PLUG BACK T.D.: MD 8,682 TVD 8,643			
20. IF MULTIPLE COMPLETIONS, HOW MANY? *			
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL/CM/GR/CCL-BHV-SD/DSN/ACTR		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
11"	8 5/8" IJ-55	28#	0	2,272		675		0	
7 7/8"	4 1/2" I-80	11.6#	0	8,725		1,449		1600	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,116							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	5,421	6,259			5,421 6,259	0.36	48	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	6,900	8,460			6,900 8,460	0.36	168	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5421-8460	PUMP 9,242 BBLs SLICK H2O & 163,900# 30/50 OTTAWA SAND 9 STAGES

29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: _____

30. WELL STATUS:

DIV. OF OIL, GAS & MINING
PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 2/3/2012	TEST DATE: 2/10/2012	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,416	WATER – BBL: 480	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,294	CSG. PRESS. 1,621	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,190
				BIRD'S NEST	1,425
				MAHOGANY	1,968
				WASATCH	4,286
				MESAVERDE	6,466

35. ADDITIONAL REMARKS (Include plugging procedure)

The first 210' of the surface hole was drilled with a 12 1/4" bit. The remainder of surface hole was drilled with an 11" bit. Attached is the chronological well history, perforation report & final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) JAIME SCHARNOWSKETITLE REGULATORY ANALYST

SIGNATURE



DATE

3/5/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 11/21/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/14/2011	21:00 - 0:00	3.00	MIRU	01	A	P		LOAD OUT TRUCKS MOVE SOME TRUCKS TO LOC. WAIT ON DAY LIGHT.
10/15/2011	0:00 - 6:00	6.00	MIRU	21	C	P		WAIT ON DAY LIGHT.
	6:00 - 15:00	9.00	MIRU	01	A	P		MOVE RIG IN OFF THE NBU 921-19P4BS.
	15:00 - 21:00	6.00	MIRU	01	B	P		MOVE RIG OVER HOLE ON THE NBU 921-19P4CS WELL 4/4 RIG UP.. SET CATWALK AND PIPE RACKS. RIG UP AND PRIME PIT PUMP & MUD PUMP. MAKE UP 12.25 BIT HUGHES / PICK UP BHA.
	21:00 - 21:30	0.50	PRPSPD	06	A	P		
	21:30 - 0:00	2.50	PRPSPD	08	A	Z		PIT PUMP WILL NOT PRIME, TROUBLE SHOOT PIT PUMP. CHANGE OUT DISCHARGE LINE ON MUD PUMP.
10/16/2011	0:00 - 2:00	2.00	DRLSUR	02	B	P		INSTALL ROTATING HEAD SPUD @ 00:00 DRLG 12 1/4" SURFACE HOLE F/40' T/210'
	2:00 - 2:30	0.50	DRLSUR	06	A	P		POOH TO PICK UP DIRECTIONAL TOOLS
	2:30 - 4:00	1.50	DRLSUR	06	A	P		M/U 11" SURF. BIT, P/U DIR TOOLS & SCRIBE THT / 210
	4:00 - 6:00	2.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 210'-400 (190' @ 126'/HR) PSI ON/ OFF 980/700, UP/ DOWN/ ROT 40/26/34. 136 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT
	6:00 - 17:00	11.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 400-1510 (1110' @ 100'/HR) PSI ON/ OFF 1270/1070, UP/ DOWN/ ROT 70/50/60. 130 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT
	17:00 - 0:00	7.00	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 1510-2020 (510' @ 72'/HR) PSI ON/ OFF 1250/1000, UP/ DOWN/ ROT 89/50/70. 130 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT (LOST RETURNS @ 1510' DRILL WITH AIR MIST @ 2160 CFM)
10/17/2011	0:00 - 4:30	4.50	DRLSUR	02	B	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 2020-2306 (286' @ 63'/HR) PSI ON/ OFF 1440/1260, UP/ DOWN/ ROT 90/55/72. 130 SPM, 18-20K WOB, 41 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT (DRILL WITH AIR MIST @ 2160 CFM)
	4:30 - 6:30	2.00	DRLSUR	05	C	P		CIRC. & COND. F/8 5/8 28# J55 CASING RUN
	6:30 - 10:00	3.50	DRLSUR	06	A	P		LDDS, BHA & DIR, TOOLS
	10:00 - 10:30	0.50	DRLSUR	12	A	P		HELD S/M MOVE CATWALK & PIPE RACKS, MOVE CASING TO WORK AREA, R/U T/RUN 8 5/8 CASING
	10:30 - 13:00	2.50	DRLSUR	12	C	P		HELD SAFETY MEETING, RUN FLOAT SHOE, SHOE JNT, BAFFLE & 51 JNTS 8 5/8" 28# LT&C CSG WITH THE SHOE SET @ 2261.0 & BAFFLE @ 2219.98
	13:00 - 14:00	1.00	DRLSUR	12	A	P		RUN 200' 1" PIPE DOWN ANNULUS, MOVE RIG OFF HOLE, INSTALL CMT HEAD, R/U PRO PETRO CEMENTERS

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 11/21/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:00 - 15:00	1.00	DRLSUR	12	E			HELD SAFETY MEETING. TEST LINES TO 2000 PSI. PUMP 125 BBLS OF 8.4# H2O AHEAD. PUMP 20 BBLS OF 8.4# GEL WATER AHEAD. PUMP PUMP 300 SX (61.4 BBLS) OF 15.8# 1.15 YIELD TAIL (2% CALC, 1/4# /SK OF FLOCELE).DROP PLUG ON FLY AND DISPLACE W 138 BBLS OF 8.4# H2O. LIFT PRESSURE WAS 320 PSI, BUMP PLUG AND HOLD 800 PSI FOR 5 MIN. FLOAT HELD NO RETURNS.
	15:00 - 17:30	2.50	DRLSUR	12	E	P		TOP OUT DOWN 1" WITH (150 SKS) 30.7 BBLS. / TOP OUT DOWN BACK SIDE WITH (225 SKS) 46.1 BBLS. 15.8 LB. NO CEMENT TO SURFACE. RELEASE RIG @ 17:30 10/17/2011
11/14/2011	6:00 - 8:00	2.00	RDMO	01	E	P		RIG DOWN RIG AND READY RIG FOR TRUCKS. LOWER DERRICK. RIG DOWN ELECTRICAL. RIG DOWN CHOKE MANIFOLD. RIG DOWN PUMPS. BLOW DOWN WATER LINES AND BOILER LINE. HOLD SAFETY MEETING WITH JD TRUCKING (8 TRUCK DRIVERS, 2 FORKLIFT OPERATORS, 1 TRUCK PUSHER, 4 SWAMPERS). MOUNTAIN WEST (1 TRUCK DRIVER AND 3 SWAMPERS) XTREME DRILLING (9 HANDS AND 2 TOOL PUSHERS).
	8:00 - 13:00	5.00	RDMO	01	A	P		TEAR RIG DOWN AND MOVE RIG 6 MILES TO LOCATION. (MOVED LARGE LOADS DOWN DAVIES ROAD TO AVOID PROBLEMS WITH PIPE LINERS OPERATIONS.
	13:00 - 19:00	6.00	MIRU	01	B	P		SET SUB ON SKID RAILS. SET DERRICK AND DRAWWORKS ONTO SUB. SET SKID RAILS FOR WATER TANK/DOGHOUSE. SET WATER TANK. SET PUMP HOUSES. SET MUD TANKS. SET SOLID CONTROL EQUIPMENT. SET SCR HOUSE. SET GENERATOR HOUSE. SET FUEL TANK. SET BOILER. SET CATWALK. RELEASE TRUCKS 19:00. RELEASE MTN WEST 19:00. (STILL NEED TO BRING IN MUD STORAGE TANKS AND MUD PRODUCT FROM OTHER LOCATION)
	19:00 - 0:00	5.00	MIRU	01	B	P		RIG UP RIG. RIG UP ELECTRICAL. RAISE DERRICK. RIG UP PUMPS AND PITS. RIG UP GAS BUSTER.
11/15/2011	0:00 - 6:00	6.00	MIRU	14	B	P		NIPPLE UP BOPE. STACK NO SETTING DOWN RIGHT. PICK UP STACK RE-ADJUST LOCK DOWN RING. CLAMP DOWN BOPE. WORK TO ATTACH 10,000 PSI CHOKE HOSE. WRONG DOUBLE STUD. HOT SHOT ADAPTOR. UNABLE TO GET CHOKE HOSE TO WORK AT THIS TIME. PUT PREVIOUS CHOKE HOSE AND CHOKE LINE BACK ON RIG. (HAD CHOKE LINES TO BUSTER AND 6" FLARE LINE CUT AND DOWN AND INSTALLED UNIONS AT EVERY BEND TO MAKE CHOKE LINES MORE MANAGEABLE).
	6:00 - 9:00	3.00	MAINT	22	K	Z		LOST POWER TO RIG. CLEAN ALL FILTERS AND INJECTORS WORK ON FUEL PUMP. GET GENERATOR BACK ON LINE.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 11/21/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW09/S/22/E/36/00/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	9:00 - 16:00	7.00	MIRU	15	A	P		TEST TOP DRIVE VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MIN AND 500 PSI FOR 5 MIN. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MIN. TEST CSG TO 1500 PSI FOR 30 MIN. (BUILD VALVE HANDLE FOR INSIDE CHOKE LINE VALVE). INSTALL FLOW LINE. (CHANGE OUT BAD SHAKER SCREENS W/ REPAIRED SHAKER SCREENS, CHANGED PUMP MODULE ON #2 PUMP)
	16:00 - 19:30	3.50	MIRU	22	O	X		WHILE SETTING WEAR BUSHING. DRILLER GOT WEAR BUSHING COCKED IN STACK AND PINCHED WEAR BUSHING ONTO RUNNING TOOL. CALL OUT FOR NEW WEAR BUSHING. WE WORKED TO GET WEAR BUSHING OFF OF RUNNING TOOL BUT WAS UNABLE TO. BORROW 139 RUNNING TOOL AND SET NEW WEAR BUSHING WHEN IT ARRIVED.
	19:30 - 20:30	1.00	MIRU	01	B	P		FINISH INSTALLING FLARE LINES AND FLARE IGNITER.
	20:30 - 21:00	0.50	MIRU	07	A	P		SERVICE TOP DRIVE. CHANGE SAVER SUB.
	21:00 - 0:00	3.00	MIRU	06	A	P		SET UP BHA . P/U HUNTING .21 RPG 1.5 BH. MAKE UP HUGHES Q506F W 6/15'S SN 7028689. SCRIBE MOTOR AND PROGRAM EM TOOL. P/U HWDP.
11/16/2011	0:00 - 1:30	1.50	MIRU	06	A	P		P/U HWDP 1000'. INSTALL NEW ROT HEAD RUBBER.
	1:30 - 2:30	1.00	MIRU	09	A	P		SLIP AND CUT DRILL LINE.
	2:30 - 5:00	2.50	MIRU	06	A	P		TRIP IN HOLE. TAG CEMENT 2200'.
	5:00 - 6:30	1.50	DRLPRO	02	F	P		SPUD 11/16/2011 05:00. DRILL CEMENT AND FLOAT EQUIPMENT 2200'-2317'. DRILL THROUGH BAFFLE PLATE @ 2230. SHOE @ 2272'. NEW HOLE 2317'.
	6:30 - 10:00	3.50	DRLPRO	02	D	P		DRILL SLIDE 2317'-2725' (408, 116'/HR) WOB 15-22K. AVE WOB-20K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 1750/1450. 300 DIFF. TORQUE ON/OFF 7500/3000. STRING WT UP/DOWN/ROT 95/75/81. DRAG 14K. COME OUT OF SHOE @ 5 DEGREE AND START DROP. SLIDE 45' @ 140' HR. SLIDE 11% ROT 89%. FULL CIRC. RUNNING CENTRIFUGES. DRILLING W/ WATER. (SEEPING 10 BBLS HR, 35 BBLS LOSS)
	10:00 - 10:30	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. TIGHTEN PACKING.
	10:30 - 12:00	1.50	DRLPRO	02	D	P		DRILL SLIDE 2725'-3043' (318', 212'/HR) WOB 15-23K. AVE WOB-22K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 1750/1450. 400 DIFF. TORQUE ON/OFF 7500/3500. STRING WT UP/DOWN/ROT 97/75/82. DRAG 20K. SLIDE 120' @ 150' HR. SLIDE 7% ROT 93%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. 8.5 WT VIS 27. (SEEPING 7 BBLS HR, 10 BBLS LOSS) SWEEP HOLE W/ 15 BBLS 70 VIS 5% LCM SWEEP EVERY 500'.
	12:00 - 12:30	0.50	MAINT	08	A	Z		RIG REPAIR. REBUILD ISOLATION VALVE ON #1 PUMP.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 11/21/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:30 - 19:30	7.00	DRLPRO	02	D	P		DRILL SLIDE 3043'-4358' (1315', 188'/HR) WOB 15-23K. AVE WOB-22K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2050/1650. 400 DIFF. TORQUE ON/OFF 8700/3500. STRING WT UP/DOWN/ROT 109/85/89. DRAG 20K. SLIDE 120' @ 150' HR. SLIDE 7% ROT 93%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. 8.5 WT VIS 27.(SEEPING 7 BBLS HR, 49 BBLS LOSS) SWEEP HOLE W/ 15 BBLS 70 VIS 5% LCM SWEEP EVERY 500'.
	19:30 - 20:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE PUMPS AND TOP DRIVE. CHANGE TORQUE ENCODER. CHANGE OIL IN TOP DRIVE. BOP DRILL.
	20:00 - 0:00	4.00	DRLPRO	02	D	P		DRILL SLIDE 4358'- 5033' (675', 169'/HR) WOB 15-23K. AVE WOB-21K. RPM 55. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2125/1725. 400 DIFF. TORQUE ON/OFF 8500/6000. STRING WT UP/DOWN/ROT 115/100/107. DRAG 8K. SLIDE 45' @ 140' HR. SLIDE 6% ROT 94%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. 8.5 WT VIS 27.(SEEPING 5 BBLS HR, 20 BBLS LOSS) SWEEP HOLE W/ 15 BBLS 70 VIS 5% LCM SWEEP EVERY 500'.
11/17/2011	0:00 - 13:30	13.50	DRLPRO	02	D	P		DRILL SLIDE 5033'-8627' (1594', 118'/HR) WOB 20-25K. AVE WOB-23K. RPM 45-60. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2300/1900. 400 DIFF. TORQUE ON/OFF 10000/6500. STRING WT UP/DOWN/ROT 149/102/126. DRAG 23K. SLIDE 90' @ 90' HR. SLIDE 8% ROT 92%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. 8.4 WT VIS 26.(SEEPING 15 BBLS HR, 202 BBLS LOSS) SWEEP HOLE W/ 15 BBLS 70 VIS 10% LCM SWEEP EVERY 500' TO HELP SEEPAGE AND CLEAN HOLE. (BOP DRILL 75 SEC)
	13:30 - 14:00	0.50	DRLPRO	07	A	P		SERVICE RIG. SERVICE TOP DRIVE. SERVICE PUMPS. FUNCTION PIPE RAMS.
	14:00 - 22:30	8.50	DRLPRO	02	D	P		DRILL SLIDE 6627'- 7422' (795', 93'/HR) WOB 20-25K. AVE WOB-24K. RPM 45-60. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2300/1900. 400 DIFF. TORQUE ON/OFF 11000/7500. STRING WT UP/DOWN/ROT 157/112/137. DRAG 20K. SLIDE 75' @ 45' HR. SLIDE 9% ROT 91%. FULL CIRC. RUNNING CENTRIFUGES AND DEWATERING. 8.4 WT VIS 26.(SEEPING 12 BBLS HR, 102 BBLS LOSS) SWEEP HOLE W/ 15 BBLS 70 VIS 10% LCM SWEEP EVERY 500' TO HELP SEEPAGE AND CLEAN HOLE. 2' FLARE FROM 7200'.
	22:30 - 0:00	1.50	MAINT	08	B	Z		BLEW SWIVEL PACKING. PULL OUT OF HOLE 500'. WE WERE ABLE TO CIRC HOLE CLEAN AT LESS PRESSURE.
11/18/2011	0:00 - 2:30	2.50	MAINT	08	B	Z		CHANGE OUT PACKING SWIVEL. TRIP BACK IN HOLE. WASH DOWN 90' TO BOTTOM. 5' FLARE ON BOTTOMS UP.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 11/21/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/19/2011	2:30 - 14:30	12.00	DRLPRO	02	D	P		DRILL SLIDE 7422'-8215' (793', 66'/HR) WOB 20-25K. AVE WOB-24K. RPM 45-60. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2650/2300. 350 DIFF. TORQUE ON/OFF 10600/8000. STRING WT UP/DOWN/ROT 171/120/140. DRAG 31K. SLIDE 92' @ 40' HR. SLIDE 11% ROT 89%. FULL CIRC. (RUNNING CENTRIFUGES AND DEWATERING. 8.4 WT VIS 26. SEEPING 10 BBLS HR, 60 BBLS LOSS TO 7800') MUD UP AT 7800' DISPLACE 400 BBLS OF 12# MUD INTO SYSTEM. STORE 400 BBLS OF DRILL WATER MUD IN WT 9.9 VIS 41 MUD OUT WT 9.8 VIS 37. HOLE SEEPING 2 BBLS HR, LOSS 2 BBLS.. USE SAWDUST SWEEPS TO CONTROL LOSSES. 5-10' DRILLING FLARE 8160'.
	14:30 - 15:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. SERVICE PUMPS. DRAWWORKS. WORK PIPE RAMS.
	15:00 - 23:00	8.00	DRLPRO	02	D	P		DRILL SLIDE 8215'-8734' (519', 65'/HR) TD 11/18/2011 23:00 WOB 20-26K. AVE WOB-25K. RPM 45-60. DHRPM 108. SPM 115 GPM-517. ON/OFF PSI 2950/2650. 300 DIFF. TORQUE ON/OFF 11500/9000. STRING WT UP/DOWN/ROT 162/120/141. DRAG 21K. SLIDE 45' @ 40' HR. SLIDE 9% ROT 91%. FULL CIRC. MUD IN WT 11.1 VIS 46 MUD OUT WT 10.9 VIS 43. HOLE SEEPING 2 BBLS HR. LOSS 16 BBLS. USE SAWDUST SWEEPS TO CONTROL LOSSES. 10' DRILLING FLARE 8400' W/ 10.9 MUD WT.
	23:00 - 0:00	1.00	EVALPR	05	A	P		CIRC AND CONDITION HOLE. RAISE MUD WT TO 11.4. VIS TO 48. NO FLARE.
	0:00 - 1:30	1.50	EVALPR	05	A	P		CIRCULATE AND CONDITION HOLE. RAISE MUD WT TO 11.4 VIS 48. MIX 35BBL 12.9# PILL AND HOLD. NO FLARE. FULL CIRC. @ 427 GPM. NO LOSSES.
	1:30 - 5:30	4.00	EVALPR	06	E	P		PUMP OUT 3 JTS. PULL 5 JTS WET @ 70 K OVER PULL. PUMP DRY JOB. STICKY HOLE 7599', 7200', 4900'-4800'. PULLED INTO TIGHT SPOT @ 4180'. TIGHT AT TOP OF MWD TOOLS. HOLE TAKING PROPER FLUID ON TRIP.
	5:30 - 7:30	2.00	EVALPR	03	A	P		WORK FREE FROM TIGHT HOLE. BACK REAM THROUGH TIGHT HOLE. HOLE TRYING TO PACK OFF. WORK SLOWLY THROUGH TIGHT HOLE. BACK REAM 4196'-4089'. CLEAN TIGHT SPOT UP WITH BIT. MUD WT 11.4 VIS 48. SLIGHT SEEPAGE OF 10 BBLS WHILE TRYING TO WORK THROUGH TIGHT SPOT. SWEEP HOLE WITH LCM.
	7:30 - 9:00	1.50	EVALPR	06	A	P		TRIP OUT OF HOLE TO SHOE. NO FLOW ON FLOW CHECK AT SHOE. HOLE STAYING FULL.
	9:00 - 14:00	5.00	EVALPR	06	E	P		WIPER TRIP BACK IN HOLE. REAM THROUGH TIGHT SPOTS @ 3600', 4100', 4403', 5051', 5320'. TRIP IN HOLE TO 7100'. HOLE DISPLACING GOOD. NO LOSSES.
	14:00 - 14:30	0.50	EVALPR	07	A	P		SERVICE RIG. SERVICE PIPE SPINNERS. SERVICE TOP DRIVE. SERVICE GENERATOR. WORK PIPE RAMS.
	14:30 - 16:00	1.50	EVALPR	06	A	P		TRIP IN HOLE TO 8578'. STICKY AT BOTTOM OF HOLE.

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 11/21/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/20/2011	16:00 - 16:30	0.50	EVALPR	03	E	P		WASH AND REAM TO 8578'- 8734'. CLEAN UP STICKY HOLE ON BOTTOM OFF HOLE.
	16:30 - 19:30	3.00	EVALPR	05	A	P		CIRC AND CONDITION HOLE. RAISE MUD WT TO 11.6 VIS 50. NO LOSSES. 20' FLARE ON BOTTOMS UP. RETURNS CLEAN AT SHAKER. MIX DRY JOB @ 35 BBLs OF 13.1# AND HOLD.
	19:30 - 0:00	4.50	EVALPR	06	B	P		TRIP OUT OF HOLE FOR LOGS. PULL 6 JTS W/ NO PUMP @ 45-50K OVER PULL. PUMP DRY JOB. TRIP OUT HOLE. SLIGHTLY STICKY 10K OVER NORMAL 6878'-6578', 5097'-4891', 4499'-4287'. HOLE TOOK PROPER FLUID ON TRIP OUT. COMING OUT OF HOLE @ 2488'.
	0:00 - 2:30	2.50	EVALPR	06	D	P		TRIP OUT OF HOLE TO 45' HWDP. PULL ROT HEAD RUBBER.
	2:30 - 3:30	1.00	EVALPR	06	B	P		PROBLEMS BREAKING SUB OFF TOP DRIVE TO LAYDOWN 45' HWDP.
	3:30 - 6:00	2.50	EVALPR	06	B	P		LD HWDP. LD DIRECTIONAL TOOLS. BREAK BIT AND LD MUD MOTOR. CLEAN FLOOR OFF. CLEAR OFF CAT WALK. HOLE TOOK PROPER FLUID ON TRIP OUT.
	6:00 - 11:00	5.00	EVALPR	11	D	P		HOLD SAFETY MEETING W/ HALLIBURTON LOGGERS. RIG UP LOGGERS AND RUN IN HOLE WITH TRIPLE COMBO LOGS. LOGGERS DEPTH 8720'. (STICKY HOLE ON BOTTOM, NO REPEAT PASS). LOG 8720'-2272'. LAY DOWN TRIPLE COMBO AND RIG DOWN LOGGERS.
	11:00 - 18:00	7.00	MAINT	08	A	Z		HAND DAMAGED COMMUNICATION CORD CAUSING PROBLEMS WITH PLC. REPAIR PLC AND COMMUNICATION CORD. (WAIT FOR LEAD TOOLPUSHER TO DRIVE FROM SALT LAKE TO MAKE REPAIRS.)
	18:00 - 19:30	1.50	CSG	12	A	P		CHANGE SUBS ON TOP DRIVE. PULL WEAR BUSHING. HOLD SAFETY MEETING W/ KIMZEY CSG. RIG UP CSG CREW. JAMES PACE WITH TSI ON LOCATION.
	19:30 - 0:00	4.50	CSG	12	C	P		MAKE UP DCT AUTO FILL FLOAT SHOE AND FLOAT COLLAR W/ THREAD LOCK. RAN 100 JTS OF 4.5" 11.6# I-80 BTC CSG TO 4425' BY REPORT TIME. (CSG DID NOT AUTO FILL. INSTALL ROT. RUBBER AFTER RUNNING CENTRALIZERS ON FIRST 3 JTS AND 1 EVERY THIRD JT FOR A TOTAL OF 15 CENTALIZERS. ESTABLISHED CIRCULATION @ 2300'.)
11/21/2011	0:00 - 3:00	3.00	CSG	12	C	P		CONTINUE TO RUN A TOTAL OF 206 JTS AND SET BOTTOM FLOAT SHOE 8725.42'KB. SET TOP OF FLOAT COLLAR 8680.31'KB. SET TOP OF MESA VERDE MARKER JTS @ 6382.91' KB. SET TOP OF WASATCH MARKER JT @ 4210.95' KB. ESTABLISH CIRC. 5200'. BRIDGE @ 8720'. WASH CSG DOWN 5' CIRCULATE BOTTOMS UP. 20' FLARE ON BOTTOMS UP GAS. TREAT THICK MUD WITH DESCO TO BREAK VIS BACK TO 41. HOLD SAFETY MEETING AND RIG DOWN CSG CREW AND HOLD SAFETY MEETING W/ BJ SERVICES.
	3:00 - 4:00	1.00	CSG	05	D	P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No: PROPETRO 11/11, XTC 12/12

Event: DRILLING

Start Date: 9/20/2011

End Date: 11/21/2011

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:00 - 7:00	3.00	CSG	12	E	P		INSTALL CEMENT HEAD W, TOP PLUG INSTALLED. PRESSURE TEST TO 5000 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 152 BBLS (383 SX) OF 12.1 PPG 2.23 YD 12.23 GAL/SK LEAD CEMENT. PUMP 248.5 BBLS (1066 SX) OF 14.3# 1.31 YD 5.90 GAL/SK. POZ 50/50 TAIL CEMENT. SHUT DOWN AND FLUSH LINES. DROP TOP PLUG AND DISPLACE W/ 135 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE. RETURNS WITH 25 BBLS OF WATER AND 2 BBLS OF CONTAMINATED MUD AND 31 BBLS GOOD CEMENT TO SURFACE. LIFT PSI OF 2456 @ 3 BBLS MIN. BUMP PLUG 3066 PSI. . PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 0', EST TOC FOR TAIL 3125'. RIG DOWN CEMENTERS. FLUSH STACK WITH FRESH WATER. STORED 760 BBLS OF 11.5# MUDIN UPRIGHTS. AND STORED 110 BBLS OF 11.5# MUD IN PILL TANK.
	7:00 - 11:00	4.00	RDMO	14	A	P		.NIPPLE DOWN STACK . SET C-22 SLIPS UNDER STACK WITH 98K ON SLIPS. CUT OFF CSG. FINISH TRANFERING 110 BBLS MUD TO PILL TANK. CLEAN 2 TANKS WITH SOLIDS. PREPARE RIG FOR SKID. START DEWATERING MUD LEFT IN PITS. RELEASE RIG 11/21/2011 11:00

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 922-36N1BS RED	Wellbore No.	OH
Well Name	NBU 922-36N1BS	Wellbore Name	NBU 922-36N1BS
Report No.	1	Report Date	1/19/2012
Project	UTAH-UINTAH	Site	NBU 922-36N PAD
Rig Name/No.		Event	COMPLETION
Start Date	1/19/2012	End Date	2/3/2012
Spud Date	10/16/2011	Active Datum	RKB @5,006.00usft (above Mean Sea Level)
UWI	SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	5,421.0 (usft)-8,460.0 (usft)	Start Date/Time	1/27/2012 12:00AM
No. of Intervals	36	End Date/Time	1/27/2012 12:00AM
Total Shots	216	Net Perforation Interval	58.00 (usft)
Avg Shot Density	3.72 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/27/2012 12:00AM	WASATCH/			5,421.0	5,427.0	4.00		0.360	EXP/	3.375	90.00			23.00 PRODUCTION N	

2.1 Perforated Interval (Continued)

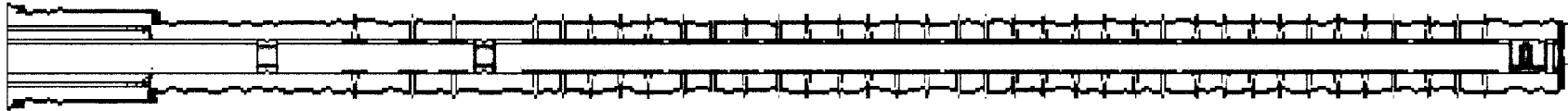
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/27/2012 12:00AM	WASATCH/			5,998.0	6,001.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	WASATCH/			6,256.0	6,259.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			6,900.0	6,902.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			6,912.0	6,914.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			6,925.0	6,927.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			6,971.0	6,972.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			6,990.0	6,991.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,140.0	7,142.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,179.0	7,181.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,280.0	7,283.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,398.0	7,400.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,435.0	7,436.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,528.0	7,530.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,569.0	7,570.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,599.0	7,600.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,650.0	7,651.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,724.0	7,725.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,743.0	7,744.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,768.0	7,769.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,813.0	7,814.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,899.0	7,900.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/27/2012 12:00AM	MESAVERDE/			7,938.0	7,940.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			7,999.0	8,000.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,019.0	8,020.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,131.0	8,132.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,163.0	8,164.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,177.0	8,178.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,188.0	8,189.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,205.0	8,206.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,228.0	8,229.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,248.0	8,249.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,268.0	8,269.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,408.0	8,410.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,436.0	8,438.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
1/27/2012 12:00AM	MESAVERDE/			8,458.0	8,460.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No:

Event: COMPLETION

Start Date: 1/19/2012

End Date: 2/3/2012

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/10/2012	-							
1/19/2012	7:45 - 8:00	0.25	COMP	48		P		HELD SAFETY MEETING: HIGH PRESSURE
	8:00 - 8:00	0.00	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST.
								PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 3 PSI.
								PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 22 PSI.
								1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 59 PSI.
								NO COMMUNICATION OR MIGRATION WITH SURFACE CSG
								BLEED OFF PSI. MOVE T/ NEXT WELL.
								SWFW
1/27/2012	7:00 - 12:00	5.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW
1/30/2012	7:00 - 7:15	0.25	COMP	48		P		HSM, REVIEW PRE FRAC, FRAC VALVE OPENING, PRESSURE TEST SURFACE LINES TO 8500#, SET MANUAL POPOFF @=6,800#

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No:

Event: COMPLETION

Start Date: 1/19/2012

End Date: 2/3/2012

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 18:00	10.75	COMP	36	B	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUMP'D</p> <p>FRAC STG #1] WHP=1,589#, BRK DN PERFS=4,000#, @=6.8 BPM, INJ RT=48.6, INJ PSI=4,889#, INITIAL ISIP=2,708#, INITIAL FG=.75, FINAL ISIP=2,727#, FINAL FG=.76, AVERAGE RATE=38.4, AVERAGE PRESSURE=4,648#, MAX RATE=52.5, MAX PRESSURE=5,899#, NET PRESSURE INCREASE=19#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,299', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP=2,121#, BRK DN PERFS=3,652#, @=6.2 BPM, INJ RT=49.7, INJ PSI=5,373#, INITIAL ISIP=2,611#, INITIAL FG=.75, FINAL ISIP=2,893#, FINAL FG=.79, AVERAGE RATE=36.6, AVERAGE PRESSURE=4,430#, MAX RATE=50.5, MAX PRESSURE=6,016#, NET PRESSURE INCREASE=282#, 15/24 60% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,050', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW.</p> <p>FRAC STG #3] WHP=1,095#, BRK DN PERFS=2,632#, @=4.7 BPM, INJ RT=43.5, INJ PSI=5,630#, INITIAL ISIP=2,300#, INITIAL FG=.72, FINAL ISIP=2,745#, FINAL FG=.78, AVERAGE RATE=49, AVERAGE PRESSURE=4,880#, MAX RATE=50.6, MAX PRESSURE=5,657#, NET PRESSURE INCREASE=445#, 15/24 63% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,799', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW. SVMFN.</p>
1/31/2012	6:15 - 6:30	0.25	COMP	48		P		<p>HSM, REVIEW ESCAPE ROUTES / OPENING & CLOSING FRAC VALVES</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No:

Event: COMPLETION

Start Date: 1/19/2012

End Date: 2/3/2012

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 18:00	11.50	COMP	36	B	P		<p>FRAC STG #4] WHP=1,424#, BRK DN PERFS=5,592#, @=4.8 BPM, INJ RT=50, INJ PSI=4,300#, INITIAL ISIP=2,329#, INITIAL FG=.74, FINAL ISIP=2,192#, FINAL FG=.72, AVERAGE RATE=45.7, AVERAGE PRESSURE=4,084#, MAX RATE=50.7, MAX PRESSURE=6,915#, NET PRESSURE INCREASE=-137#, 18/24 75% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,466', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #5] WHP=1,603#, BRK DN PERFS=4,189#, @=3.9 BPM, INJ RT=40.3, INJ PSI=5,768#, INITIAL ISIP=2,096#, INITIAL FG=.72, FINAL ISIP=2,468#, FINAL FG=.77, AVERAGE RATE=39.9, AVERAGE PRESSURE=4,992#, MAX RATE=59.9, MAX PRESSURE=6,292#, NET PRESSURE INCREASE=372#, CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,211', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #6] WHP=309#, BRK DN PERFS=4,961#, @=4.7 BPM, INJ RT=49.8, INJ PSI=5,308#, INITIAL ISIP=1,993#, INITIAL FG=.71, FINAL ISIP=2,563#, FINAL FG=.80, AVERAGE RATE=47.4, AVERAGE PRESSURE=4,677#, MAX RATE=50.3, MAX PRESSURE=6,946#, NET PRESSURE INCREASE=570#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,957', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW. SWFN.</p>
2/1/2012	6:15 - 6:30	0.25	COMP	48		P		<p>HSM, REVIEW VALVE OPENING & CLOSING W/ NEW CREW</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No:

Event: COMPLETION

Start Date: 1/19/2012

End Date: 2/3/2012

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 17:00	10.50		36	B	P		<p>FRAC STG #7] WHP=1,468#, BRK DN PERFS=2,360#, @=4.8 BPM, INJ RT=49.8, INJ PSI=4,681#, INITIAL ISIP=2,099#, INITIAL FG=.74, FINAL ISIP=2,008#, FINAL FG=.72, AVERAGE RATE=49.9, AVERAGE PRESSURE=4,263#, MAX RATE=51.4, MAX PRESSURE=4,741#, NET PRESSURE INCREASE=-91#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=6,289', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP=260#, BRK DN PERFS=2,837#, @=4.8 BPM, INJ RT=45.4, INJ PSI=5,481#, INITIAL ISIP=1,299#, INITIAL FG=.65, FINAL ISIP=1,597#, FINAL FG=.69, AVERAGE RATE=50, AVERAGE PRESSURE=5,214#, MAX RATE=50.1, MAX PRESSURE=6,186#, NET PRESSURE INCREASE=298#, 16/24 67% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #9] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=5,457', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #9] WHP=284#, BRK DN PERFS=2,912#, @=4.8 BPM, INJ RT=48.4, INJ PSI=3,750#, INITIAL ISIP=1,105#, INITIAL FG=.64, FINAL ISIP=1,638#, FINAL FG=.74, AVERAGE RATE=49.8, AVERAGE PRESSURE=3,607#, MAX RATE=49.9, MAX PRESSURE=3,765#, NET PRESSURE INCREASE=533#, 20/24 83% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>P/U RIH W/ HALIBURTON 8K CBP, SET FOR TOP KILL @=5,371'</p> <p>TOTAL FLUID PUMP'D=9,242 BBLS TOTAL SAND PUMP'D=163,900#</p>
2/2/2012	13:00 - 17:00	4.00	COMP	44		P		MIRU,NDWH, NU BOP'S, TEST BOP'S, PU POBS, SN, BIT, TBG, TIH 41 JTS 1313', SWIFN
2/3/2012	7:00 - 7:30	0.50	COMP	48		P		MILLING PLUGS

US ROCKIES REGION
Operation Summary Report

Well: NBU 922-36N1BS RED

Spud Date: 10/16/2011

Project: UTAH-UINTAH

Site: NBU 922-36N PAD

Rig Name No:

Event: COMPLETION

Start Date: 1/19/2012

End Date: 2/3/2012

Active Datum: RKB @5,006.00usft (above Mean Sea Level)

UWI: SE/SW0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/2379/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 17:30	10.00	COMP	44		P		<p>TIH TO 5371', TAG PLUG# 1, PU SWMVEL, MILL 9 PLUGS, CLEAN OUT TO8593', 270 JTS, POOH LAY DWN 15 JTS TO 8116', 255 JTS, LAND TBG, ND BOP'S, NU WH, POBS 1500#,, TURN TO FBC.</p> <p>PLUG# 1 5371' 40' SAND 5 MIN 0# KICK PLUG# 2 5457' 30' SAND 5 MIN 0# KICK PLUG# 3 6289' 30' SAND 5 MIN 100# KICK PLUG# 4 6957' 30' SAND 5 MIN 200# KICK PLUG# 5 7211' 30' SAND 5 MIN 0# KICK PLUG# 6 7466' 40' SAND 5 MIN 400# KICK PLUG# 7 7799' 30' SAND 5 MIN 300# KICK PLUG# 8 8050' 30' SAND 5 MIN 400# KICK PLUG# 9 8299' 30' SAND 5 MIN 800# KICK</p> <p>PBTD 8593' BTM PERF 8460'</p> <p>FRAC WTR 9267 BBLS RCVD 2200 BBLS LTR 7067 BBLS</p> <p>TBG 255 JTS TBG 8098.44' KB 15.00' HANGER .83' XNSN 1.875" 2.20' EOT 8116.47'</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 922-36N1BS RED	Wellbore No.	OH
Well Name	NBU 922-36N1BS	Common Name	NBU 922-36N1BS
Project	UTAH-UINTAH	Site	NBU 922-36N PAD
Vertical Section Azimuth	304.56 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	10/16/2011	UWI	SE/SW/0/9/S/22/E/36/0/0/26/PM/S/1088/W/0/237 9/0/0
Active Datum	RKB @5,006.00usft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	WEATHERFORD
Started	10/15/2011	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.1.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
11.00	0.00	0.00	11.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	TFace (°)
10/15/2011	Tie On	11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/16/2011	NORMAL	184.00	1.70	335.50	183.97	2.34	-1.06	2.20	0.98	0.98	0.00	335.50
	NORMAL	266.00	4.28	2.87	265.86	6.50	-1.42	4.85	3.51	3.15	33.38	43.10
	NORMAL	351.00	6.29	1.06	350.49	14.32	-1.17	9.09	2.37	2.38	-2.13	-5.64
	NORMAL	441.00	7.75	355.91	439.82	25.31	-1.51	15.60	1.76	1.62	-5.72	-25.89
	NORMAL	531.00	8.88	349.41	528.87	38.19	-3.22	24.32	1.63	1.26	-7.22	-43.00
	NORMAL	621.00	9.94	349.03	617.66	52.64	-5.98	34.78	1.18	1.18	-0.42	-3.54
	NORMAL	711.00	11.13	344.03	706.14	68.62	-9.84	47.03	1.67	1.32	-5.56	-40.01
	NORMAL	801.00	11.19	337.53	794.44	85.04	-15.57	61.07	1.40	0.07	-7.22	-90.46
	NORMAL	891.00	11.25	327.78	882.73	100.54	-23.59	76.46	2.11	0.07	-10.83	-92.98
	NORMAL	981.00	11.94	324.16	970.90	115.52	-33.72	93.30	1.11	0.77	-4.02	-48.30
	NORMAL	1,071.00	11.69	315.53	1,059.00	129.57	-45.56	111.02	1.98	-0.28	-9.59	-102.26
	NORMAL	1,161.00	12.44	309.41	1,147.01	142.23	-59.44	129.64	1.65	0.83	-6.80	-62.63
	NORMAL	1,251.00	12.94	303.66	1,234.82	153.97	-75.32	149.37	1.51	0.56	-6.39	-71.23
	NORMAL	1,341.00	13.44	295.91	1,322.45	164.13	-93.12	169.79	2.04	0.56	-8.61	-78.01
	NORMAL	1,431.00	13.75	284.91	1,409.94	171.45	-112.86	190.21	2.89	0.34	-12.22	-88.53
	NORMAL	1,521.00	13.31	277.78	1,497.45	175.61	-133.46	209.53	1.92	-0.49	-7.92	-108.22
	NORMAL	1,611.00	13.75	275.66	1,584.95	178.06	-154.37	228.14	0.74	0.49	-2.36	-49.46

2.1.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
10/16/2011	NORMAL	1,701.00	13.63	278.16	1,672.40	180.62	-175.51	247.00	0.67	-0.13	2.78	102.68
	NORMAL	1,791.00	12.56	280.78	1,760.06	183.96	-195.62	265.46	1.36	-1.19	2.91	152.25
10/17/2011	NORMAL	1,881.00	12.19	280.28	1,847.96	187.49	-214.59	283.07	0.43	-0.41	-0.56	-164.09
	NORMAL	1,971.00	10.06	283.03	1,936.27	190.95	-231.60	299.05	2.44	-2.37	3.06	167.36
	NORMAL	2,061.00	8.88	282.78	2,025.04	194.26	-246.03	312.81	1.31	-1.31	-0.28	-178.13
	NORMAL	2,151.00	7.13	283.91	2,114.16	197.14	-258.23	324.49	1.95	-1.94	1.26	175.42
	NORMAL	2,257.00	5.13	283.99	2,219.55	199.87	-269.21	335.08	1.89	-1.89	0.08	179.80

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	NATIVE NAVIGATIONS
Started	11/16/2011	Ended	
Tool Name	EM	Engineer	Anadarko Employee

2.2.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
2,257.00	5.13	283.99	2,219.55	199.87	-269.21

2.2.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
11/16/2011	Tie On	2,257.00	5.13	283.99	2,219.55	199.87	-269.21	335.08	0.00	0.00	0.00	0.00
11/16/2011	NORMAL	2,358.00	3.60	278.90	2,320.25	201.45	-276.72	342.17	1.56	-1.51	-5.04	-168.32
	NORMAL	2,448.00	2.60	284.70	2,410.12	201.70	-281.55	346.28	1.39	-1.11	-15.78	-149.43
	NORMAL	2,539.00	1.71	206.79	2,501.07	200.30	-284.22	347.68	2.45	-0.98	-63.64	-139.41
	NORMAL	2,675.00	2.29	132.08	2,637.00	196.67	-283.11	344.72	1.82	0.43	-54.93	-116.58
	NORMAL	2,766.00	0.66	140.78	2,727.97	195.04	-281.43	342.41	1.80	-1.79	9.56	176.51
	NORMAL	2,856.00	1.05	154.67	2,817.96	193.89	-280.75	341.20	0.49	0.43	15.43	35.05
	NORMAL	2,947.00	0.97	170.32	2,908.95	192.38	-280.27	339.94	0.31	-0.09	17.20	113.90
	NORMAL	3,038.00	1.63	112.40	2,999.93	191.13	-278.94	338.14	1.52	0.73	-63.65	-94.31
	NORMAL	3,129.00	1.14	134.02	3,090.90	190.01	-277.09	335.98	0.78	-0.54	23.76	143.62
	NORMAL	3,219.00	0.88	123.91	3,180.89	189.00	-275.88	334.41	0.35	-0.29	-11.23	-150.56
	NORMAL	3,310.00	1.85	88.14	3,271.86	188.66	-273.83	332.52	1.37	1.07	-39.31	-60.12
	NORMAL	3,401.00	1.32	106.77	3,362.83	188.40	-271.36	330.34	0.81	-0.58	20.47	144.86
	NORMAL	3,491.00	1.10	113.36	3,452.81	187.76	-269.57	328.51	0.29	-0.24	7.32	150.95
	NORMAL	3,582.00	1.19	128.39	3,543.79	186.83	-268.03	326.71	0.34	0.10	16.52	80.92
	NORMAL	3,673.00	0.88	69.77	3,634.78	186.48	-266.63	325.36	1.15	-0.34	-64.42	-134.24
	NORMAL	3,764.00	0.48	129.53	3,725.77	186.48	-265.68	324.58	0.84	-0.44	65.67	146.99
	NORMAL	3,854.00	0.57	143.07	3,815.77	185.88	-265.12	323.78	0.17	0.10	15.04	60.94
	NORMAL	3,945.00	0.66	159.42	3,906.76	185.03	-264.67	322.92	0.22	0.10	17.97	71.18
	NORMAL	4,036.00	0.70	174.10	3,997.75	183.99	-264.42	322.13	0.20	0.04	16.13	84.48
	NORMAL	4,127.00	1.36	158.36	4,088.74	182.43	-263.97	320.87	0.78	0.73	-17.30	-31.21
	NORMAL	4,217.00	1.98	144.12	4,178.70	180.18	-262.66	318.52	0.82	0.69	-15.82	-41.05
	NORMAL	4,308.00	1.98	106.95	4,269.65	178.45	-260.24	315.54	1.39	0.00	-40.85	-108.57
	NORMAL	4,399.00	1.19	47.27	4,360.62	178.63	-258.04	313.83	1.89	-0.87	-65.58	-143.32
	NORMAL	4,490.00	1.05	44.10	4,451.60	179.87	-256.77	313.49	0.17	-0.15	-3.48	-157.71
	NORMAL	4,580.00	0.83	58.43	4,541.59	180.80	-255.64	313.09	0.36	-0.24	15.92	140.12
	NORMAL	4,671.00	1.19	69.33	4,632.58	181.48	-254.19	312.28	0.45	0.40	11.98	33.61
	NORMAL	4,762.00	0.92	77.15	4,723.56	181.98	-252.59	311.25	0.34	-0.30	8.59	155.80
	NORMAL	4,853.00	0.70	81.72	4,814.55	182.22	-251.33	310.35	0.25	-0.24	5.02	165.91
	NORMAL	4,943.00	0.75	91.48	4,904.54	182.28	-250.20	309.45	0.15	0.06	10.84	72.89

2.2.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
11/16/2011	NORMAL	5,034.00	0.83	120.66	4,995.54	181.93	-249.04	308.29	0.45	0.09	32.07	93.58
11/17/2011	NORMAL	5,127.00	0.22	59.05	5,088.53	181.68	-248.30	307.55	0.81	-0.66	-66.25	-165.06
	NORMAL	5,216.00	0.92	104.93	5,177.53	181.58	-247.47	306.80	0.88	0.79	51.55	57.52
	NORMAL	5,307.00	1.10	36.55	5,268.52	182.10	-246.24	306.09	1.26	0.20	-75.14	-116.71
	NORMAL	5,397.00	0.88	59.75	5,358.50	183.14	-245.13	305.76	0.50	-0.24	25.78	130.03
	NORMAL	5,488.00	0.57	81.72	5,449.50	183.56	-244.08	305.13	0.45	-0.34	24.14	148.75
	NORMAL	5,579.00	0.57	95.26	5,540.49	183.58	-243.18	304.41	0.15	0.00	14.88	96.77
	NORMAL	5,670.00	0.53	104.75	5,631.49	183.43	-242.32	303.61	0.11	-0.04	10.43	118.40
	NORMAL	5,760.00	0.70	136.50	5,721.48	182.93	-241.54	302.69	0.42	0.19	35.28	79.95
	NORMAL	5,851.00	0.97	148.52	5,812.47	181.87	-240.76	301.44	0.35	0.30	13.21	39.08
	NORMAL	5,942.00	1.10	149.31	5,903.46	180.46	-239.91	299.94	0.14	0.14	0.87	6.66
	NORMAL	6,032.00	1.05	154.58	5,993.44	178.97	-239.11	298.44	0.12	-0.06	5.86	119.44
	NORMAL	6,123.00	1.23	148.26	6,084.42	177.39	-238.24	296.83	0.24	0.20	-6.95	-38.12
	NORMAL	6,214.00	1.23	151.86	6,175.40	175.69	-237.27	295.06	0.08	0.00	3.96	91.80
	NORMAL	6,305.00	1.23	152.65	6,266.38	173.97	-236.36	293.33	0.02	0.00	0.87	90.39
	NORMAL	6,395.00	1.58	157.22	6,356.36	171.96	-235.43	291.44	0.41	0.39	5.08	20.05
	NORMAL	6,486.00	1.19	173.92	6,447.33	169.87	-234.85	289.77	0.61	-0.43	18.35	142.16
	NORMAL	6,577.00	0.48	138.50	6,538.32	168.64	-234.50	288.78	0.93	-0.78	-38.92	-160.80
	NORMAL	6,668.00	0.70	129.89	6,629.31	168.00	-233.82	287.86	0.26	0.24	-9.46	-26.29
	NORMAL	6,758.00	1.14	335.99	6,719.31	168.47	-233.76	288.07	1.99	0.49	-171.00	-163.78
	NORMAL	6,849.00	1.98	343.11	6,810.27	170.80	-234.58	290.08	0.95	0.92	7.82	16.57
	NORMAL	6,940.00	1.41	348.21	6,901.23	173.40	-235.27	292.11	0.65	-0.63	5.60	167.72
	NORMAL	7,031.00	1.23	2.09	6,992.21	175.47	-235.46	293.45	0.40	-0.20	15.25	126.20
	NORMAL	7,121.00	0.88	25.38	7,082.20	177.06	-235.13	294.08	0.61	-0.39	25.88	140.47
	NORMAL	7,212.00	1.10	15.36	7,173.18	178.53	-234.60	294.48	0.31	0.24	-11.01	-43.28
	NORMAL	7,303.00	0.92	43.14	7,264.17	179.91	-233.87	294.65	0.57	-0.20	30.53	123.71
	NORMAL	7,394.00	0.70	72.58	7,355.16	180.61	-232.84	294.20	0.51	-0.24	32.35	132.05
11/18/2011	NORMAL	7,484.00	1.14	73.37	7,445.15	181.03	-231.46	293.30	0.49	0.49	0.88	2.05
	NORMAL	7,575.00	0.88	81.37	7,536.13	181.39	-229.90	292.23	0.32	-0.29	8.79	155.49
	NORMAL	7,666.00	0.13	150.63	7,627.13	181.41	-229.16	291.62	0.93	-0.82	76.11	171.71
	NORMAL	7,757.00	0.13	156.69	7,718.13	181.22	-229.07	291.44	0.02	0.00	6.66	93.03
	NORMAL	7,848.00	0.48	218.48	7,809.13	180.83	-229.26	291.38	0.48	0.38	67.90	77.10
	NORMAL	7,938.00	0.75	195.63	7,899.12	179.97	-229.65	291.22	0.40	0.30	-25.39	-54.06
	NORMAL	8,029.00	0.92	150.10	7,990.11	178.76	-229.45	290.37	0.73	0.19	-50.03	-99.13
	NORMAL	8,120.00	1.54	139.29	8,081.09	177.20	-228.29	288.52	0.72	0.68	-11.88	-25.98
	NORMAL	8,211.00	1.63	141.93	8,172.06	175.25	-226.69	286.11	0.13	0.10	2.90	40.38
	NORMAL	8,302.00	1.10	152.30	8,263.03	173.46	-225.49	284.10	0.64	-0.58	11.40	160.13
	NORMAL	8,393.00	0.57	209.87	8,354.02	172.30	-225.31	283.29	1.02	-0.58	63.26	148.80
	NORMAL	8,483.00	0.62	201.65	8,444.02	171.46	-225.71	283.14	0.11	0.06	-9.13	-63.79
	NORMAL	8,574.00	0.57	170.93	8,535.01	170.55	-225.82	282.72	0.35	-0.05	-33.76	-114.06
	NORMAL	8,665.00	0.75	141.93	8,626.01	169.63	-225.38	281.84	0.41	0.20	-31.87	-76.70
	NORMAL	8,684.00	0.75	138.41	8,645.01	169.44	-225.22	281.60	0.24	0.00	-18.53	-91.76
	NORMAL	8,734.00	0.75	138.41	8,695.00	168.95	-224.79	280.96	0.00	0.00	0.00	0.00